INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: September 12, 2013

RE: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant / 147-32899-00020

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 approval 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) calendar 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.

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.

Enclosures
FNPER-MOD.dot 6/13/2013

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September 12, 2013

John LaGrange
Environmental & Lab supervisor
Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant
2791 North US Highway 231
Rockport, IN 47635

Re: 147-32899-00020
Significant Permit Modification to
Part 70 No.: T147-6786-00020

Dear Mr. LaGrange:

Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant was issued a Part 70 Operating Permit No. 147-6786-00020 on August 07, 2006 for a stationary electric generating station located at 2791 N US Highway 231, Rockport, IN 47635. An application requesting changes to this permit was received on February 27, 2013. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

For your convenience, the entire Part 70 Operating Permit as modified is attached.

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. 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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Ghassan Shalabi, of my staff, at 317-234-5378 or 1-800-451-6027, and ask for extension 4-5378.

Sincerely,

Tripurari Sinha

Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachment(s): Updated Permit, Technical Support Document and Appendix A

TS/GS

cc: File - Spencer County
Spencer County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch

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Thomas W. Easterly
Commissioner

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: Nisha Sizemore, Permits Branch Chief Office of Air Quality	Issuance Date: August 7, 2006 Expiration Date: August 7, 2011

Significant Permit Modification No. 147-27400-00020, issued May 11, 2009
Significant Permit Modification No. 147-29169-00020, issued July 29, 2010

Significant Permit Modification No.: T147-32899-00020	
Issued by: Tripurari Sinha Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: September 12, 2013 Expiration Date: August 7, 2011

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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)]

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 $PM_{2.5}$ 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 PM2.5 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)]

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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 1 (MB1) from a dedicated silo)s). One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 2 (MB2) from a dedicated silo(s). One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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) Four (4) pneumatic truck unloading stations, two (2) at each set of silos, for transferring halogenated and non-halogenated activated carbon from transports to storage silos, permitted in 2008, 2010, and 2013 with particulate emissions controlled by a bin vent filter.

(g) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2008, 2010, and 2013 with particulate emissions from each silo controlled by a bin vent filter.

(h) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(i) Four (4) metering pressure tanks per silo, with a maximum system capacity of injecting 4000 pounds per hour of halogenated or non-halogenated activated carbon into the exhaust ductwork, permitted in 2008, 2010, and 2013 with particulate emissions from the pressure tanks controlled via the silo bin vent filter.

DSI Handling and Storage operation

(j) Two (2) pneumatic truck unloading systems (one system per unit) for transferring sodium bicarbonate from up to two transport trucks simultaneously to the attached storage silos, permitted in 2013, with particulate emissions controlled by a bin vent filter on the silo receiving the sorbent being unloaded.

(k) Four (4) silos, two (2) per unit, for storing sodium bicarbonate, each with a maximum storage capacity of 1440 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(l) Injection metering system that includes three (3) metering feeders directly fed from each storage silo, blowers, and piping necessary to inject up to 10 tons per hour of sodium bicarbonate into the ductwork feeding the four electrostatic precipitators on each unit, permitted in 2013, 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)]

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_2 5 pounds per hour or 25 pounds per day, NO_X 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]

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]

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]

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]

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

Indiana Department of Environmental Management
Compliance 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]

(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]

(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]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
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]

(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)]

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

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

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

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

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

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management
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_2 or NO_X 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]

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

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance 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)]

(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]

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

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

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

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

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

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

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]

(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(ll)) 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(ll)) at an existing emissions unit, document and maintain the following records:

(A) A description of the project.

(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;

(ii) Projected actual emissions;

(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(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(ll)) 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

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]

(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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 1 (MB1) from a dedicated silo)s). One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 2 (MB2) from a dedicated silo(s). One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

PAC Handling and Storage Operations

(f) Four (4) pneumatic truck unloading stations, two (2) at each set of silos, for transferring halogenated and non-halogenated activated carbon from transports to storage silos, permitted in 2008, 2010, and 2013 with particulate emissions controlled by a bin vent filter.

(g) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2008, 2010, and 2013 with particulate emissions from each silo controlled by a bin vent filter.

(h) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(i) Four (4) metering pressure tanks per silo, with a maximum system capacity of injecting 4000 pounds per hour of halogenated or non-halogenated activated carbon into the exhaust ductwork, permitted in 2008, 2010, and 2013 with particulate emissions from the pressure tanks controlled via the silo bin vent filter.

DSI Handling and Storage operation

(j) Two (2) pneumatic truck unloading systems (one system per unit) for transferring sodium bicarbonate from up to two transport trucks simultaneously to the attached storage silos, permitted in 2013, with particulate emissions controlled by a bin vent filter on the silo receiving the sorbent being unloaded.

(k) Four (4) silos, two (2) per unit, for storing sodium bicarbonate, each with a maximum storage capacity of 1440 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(l) Injection metering system that includes three (3) metering feeders directly fed from each storage silo, blowers, and piping necessary to inject up to 10 tons per hour of sodium bicarbonate into the ductwork feeding the four electrostatic precipitators on each unit, permitted in 2013, 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_X 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_2 per million Btu (MMBtu) heat input derived from liquid fossil fuel. [40 CFR 60.43(a)(1)]

(2) 1.2 pound SO_2 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_2 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_X per million Btu (MMBtu) heat input derived from liquid fossil fuel. [40 CFR 60.44(a)(2)]

(2) 0.70 pound NO_X 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_X 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 PSD Minor Limits [326 IAC 2-2]

(a) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

Boiler MB1 and Boiler MB2

(1) The total PM emissions from Boiler MB1 and Boiler MB2 shall be limited to 2575 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PMCS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PMCS012}$ = a value of 0.0365 lb/MMBtu of PM for the common stack until a

value is determined from the latest IDEM approved stack test, and that value thereafter.

(2) The total PM10 emissions from Boiler MB1 and Boiler MB2 shall be limited to 1725 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PM10CS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PM10CS012}$ = a value of 0.0245 lb/MMBtu of PM10 for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

(3) The total PM2.5 emissions from Boiler MB1 and Boiler MB2 shall be limited to 746 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PM25CS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PM10CS012}$ = a value of 0.011 lb/MMBtu of PM2.5 for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

Dry Sorbent Injection System Serving Units MB1 and MB21

(1) The Dry Sorbent delivered to the site shall be limited to 142,500 tons per twelve (12) consecutive month period for both units with compliance determined at the end of each month.

(2) The PM emissions from the Sorbent Silos shall be limited to 0.73 lbs per thousand tons of dry sorbent.

(3) The PM10 emissions from the Sorbent Silos shall be limited to 0.48 lbs per thousand tons of dry sorbent.

(4) The PM2.5 emissions from the Sorbent Silos shall be limited to 0.0028 lbs per thousand tons of dry sorbent.

(5) The PM emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 33.54 lbs per thousand tons of dry sorbent.

(6) The PM10 emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 6.46 lbs per thousand tons of dry sorbent.

(7) The PM2.5 emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 1.54 lbs per thousand tons of dry sorbent.

Activated Carbon Injection System Serving Units MB1 and MB21

(1) The Activated Carbon delivered to the site shall be limited to 35,040 tons per twelve (12) consecutive month period for both units with compliance determined at the end of each month.

(2) The PM emissions from the Activated Carbon Silo bin vent filter shall be limited to 56.68 lbs per thousand tons of Activated Carbon.

(3) The PM10 emissions from the Activated Carbon Silo bin vent filter shall be limited to 36.99 lbs per thousand tons of Activated Carbon.

(4) The PM2.5 emissions from the Activated Carbon Silo bin vent filter shall be limited to 5.99 lbs per thousand tons of Activated Carbon.

(5) The PM emissions from the paved roads used for the Activated Carbon delivery shall be limited to 20.55 lbs per thousand tons of Activated carbon delivered.

(6) The PM10 emissions from the paved roads used for the Activated Carbon delivery shall be limited to 4.00 lbs per thousand tons of Activated carbon delivered.

(7) The PM2.5 emissions from the paved roads used for the Activated Carbon delivery shall be limited to 1.14 lbs per thousand tons of Activated carbon delivered.

Ash Handling to Silos

(1) The PM emissions from the Ash Silos shall be limited to 0.2 lbs per thousand tons of dry ash.

(2) The PM10 emissions from the Ash Silos shall be limited to 0.2 lbs per thousand tons of dry ash.

(3) The PM2.5 emissions from the Ash Silos shall be limited to 0.1 lbs per thousand tons of dry ash.

(4) The total amount of dry ash loaded shall be limited to 583,743 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Ash Hauling on Paved Roads

(1) The PM emissions from the paved roads used for the Ash Hauling shall be limited to 81.59 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the paved roads used for the Ash Hauling shall be limited to 15.57 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the paved roads used for the Ash Hauling shall be limited to 3.90 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Ash Hauling on Unpaved Roads

(1) The PM emissions from the unpaved roads used for the Ash Hauling shall be limited to 72.83 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the unpaved roads used for the Ash Hauling shall be limited to 19.33 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the unpaved roads used for the Ash Hauling shall be limited to 1.92 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Loading and Dumping of conditioned Ash

(1) The PM emissions from the loading and dumping of the conditioned ash shall be limited to 0.22 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the loading and dumping of the conditioned ash shall be limited to 0.1 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the loading and dumping of the conditioned ash shall be limited to 0.01 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Landfill Emissions:

(1) The PM emissions from the landfill operation for the conditioned ash shall be limited to 183.59 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the landfill operation for the conditioned ash shall be limited to 55.45 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the landfill operation for the conditioned ash shall be limited to 6.92 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable for CO_2, the Permittee shall comply with the following:

(1) The total amount of sorbent used on MB1 and MB2 at Rockport Plant shall not exceed 142,500 tons in a 12 month period.

(2) Compliance with the sorbent tonnage limit in (1) shall be determined by the use of inventory and delivery records.

Compliance with these emission limits will ensure that the net emissions increase from this modification is less than twenty-five (25) tons of PM per year, less than fifteen (15) tons of PM_{10} per year and less than ten (10) tons of PM2.5 per year and therefore will render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2013 modification.

Compliance with these requirements will ensure that the potential to emit from this modification is

less than seventy five thousand (75,000) tons of CO_2 and therefore will render the requirements of 326 IAC 2-2 not applicable to the 2013 modification.

D.1.5 Opacity Limitations [326 IAC 5-1]

(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.1.6 Hourly SO2 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_2 emission rate for Boilers MB1 and MB2 shall not exceed 28,663 pounds of SO_2 per hour.

D.1.7 Consent Decree (Federal District Court for the Southern District of Ohio on February 22, 2013) Boiler MB1 and MB2 SO2 emission limits:

(a) "Continuously Operate" or "Continuous Operation" means that when an SCR, FGD, DSI, ESP, or Other NOx Pollution Controls are used at a Unit, except during a Malfunction, they shall be operated at all times such Unit is in operation, consistent with the

technological limitations, manufacturer's specifications, and good engineering and maintenance practices for such equipment and the Unit so as to minimize emissions to the greatest extent practicable.

(b) "Dry Sorbent Injection" or "DSI" means a pollution control system in which sorbent is injected into the flue gas path prior to the particulate pollution control devices for the purpose of reducing SO2 emissions. For the purposes of DSI systems required to be installed at the Rockport Units only, the DSI systems shall utilize a sodium based sorbent and be designed to inject at least 10 tons per hour of a sodium based sorbent. Defendants may utilize a different sorbent at the Rockport Units provided they obtain prior approval from Plaintiffs pursuant to Paragraph 148 of the Consent Decree.

(c) "Plant-Wide Annual Tonnage Limitation for SO2 at Rockport" means the sum of tons of SO2 emitted during all periods of operation from the Rockport Plant, including, without limitations, all SO2 emitted during periods of startup, shutdown, and Malfunction, during relevant calendar year (i.e., January 1-December 31).

(d) The source shall install the DSI systems on Unit 1 and Unit 2 no later than April 16, 2015.

(e) Beginning January 1, 2016 and ending on December 31, 2017 Rockport Plant will be limited to emitting 28,000 tons per year of SO_2 from Boilers MB1 and MB2;

(f) Beginning January 1, 2018 and ending on December 31, 2019 Rockport Plant will be limited to emitting 26,000 tons per year of SO_2 from Boilers MB1 and MB2;

(g) Beginning January 1, 2020 and ending on December 31, 2025 Rockport Plant will be limited to emitting 22,000 tons per year of SO_2 from Boilers MB1 and MB2;

(h) Beginning January 1, 2026, one Rockport Plant main boiler must be equipped with SO_2 controls as defined in the consent decree, repowered, refueled with natural gas, or retired and MB1 and MB2 will be limited to emitting no more than 18,000 tons of SO_2 per year.

(i) Beginning January 1, 2029, the second Rockport Plant main boiler must be equipped with SO_2 controls as defined in the consent decree, repowered, refueled with natural gas, or retired and MB1 and MB2 will be limited to emitting no more than 10,000 tons of SO_2 per year.

(i) Beginning on March 31, 2017, and continuing annually thereafter, the source shall report:

(1) The actual tons of SO2 emitted from Units 1 and 2 at the Rockport plant for the prior calendar year.

(2) The Plant-Wide Annual Tonnage Limitation for SO2 at the Rockport plant for the prior year as set forth in Paragraph 89A of the consent Decree;

(3) For the annual reports for calendar years 2015-2028, the source shall report the daily average SO2 emissions from the Rockport Plant expressed in lb/MMBtu, and the daily sorbent deliveries to the Rockport Plant by weight.

(j) By March 31, 2024, Defendants shall notify Plaintiffs of their decision to Retrofit, Retire, Re-power or refuel the first Rockport Unit. If Defendants elect to Retrofit the Unit, Defendants shall provide with such notification, information regarding the removal efficiency guarantee requested from and obtained from the control technology vendor and the sulfur content of the fuel used to design the FGD, including any non-confidential information regarding the SO2 control technology filed by Defendants with public utility regulator.

(k) By March 31, 2027, Defendants shall notify Plaintiffs of their decision to Retrofit, Retire, Re-power or refuel the second Rockport Unit. If Defendants elect to Retrofit the Unit, Defendants shall provide with such notification, information regarding the removal efficiency guarantee requested from and obtained from the control technology vendor and the sulfur content of the fuel used to design the FGD, including any non-confidential information regarding the SO2 control technology filed by Defendants with public utility regulator.

(l) If Defendants elect to Retrofit one or both of the Rockport Units, beginning in the annual reports submitted for calendar years 2026 and/or 2029, as applicable, Defendants shall report a 30-Day Rolling Average SO2 Emissions Rate for the Unit(s) that is (are) Retrofit in accordance with Paragraph 5 of the Consent Decree. In addition, Defendants shall report a 30-Day Rolling Average Uncontrolled Emission Rate for SO2 for the Unit(s) that is (are) Retrofit based on daily as burned coal sampling and analysis or an inlet SO2 CEMs upstream of the FGD.

D.1.8 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.1.9 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

(a) 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	30	40.0

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:

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

(b) Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the DSI 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)
DSI Handling and Storage	50	44.60

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

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

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

Compliance Determination Requirements

D.1.10 Particulate Control [326 IAC 2-7-6(6)]

In order to comply with Condition D.1.9, 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.1.11 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.1.12 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.1.13 Operation of Low NOX 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_X 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.1.14 Continuous Emissions Monitoring [326 IAC 3-5][326 IAC 12][40 CFR 60, Subpart D] [326 IAC 7-2][40 CFR 52.21]

(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_2, NO_X, and either CO_2 or O2, 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_2 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_X 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.1.15 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-5][326 IAC 7-2][326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the SO_2 limits in Conditions D.1.2 and D.1.3. Compliance with these limits shall be determined using SO_2 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.1.16 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) The ability of the ESP to control particulate emissions shall be monitored once per 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.1.17 SO2 Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)]

Whenever the SO_2 continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments, the following shall be used to provide information related to SO_2 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.1.18 Visible Emissions Notations

(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.1.19 Broken or Failed Bin Vent Filter Detection

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.1.20 Record Keeping Requirements

(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.1.5, D.1.14, and D.1.16, 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.1.5.

(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_2 requirements in Conditions D.1.2(b), D.1.3(a), D.1.6, D.1.14, D.1.15, and D.1.17, 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_2 limit(s) as required in Conditions D.1.2(b), D.1.3(a), D.1.14, and D.1.15. The Permittee shall maintain records in accordance with (3) and (4) below during SO_2 CEMS malfunction or downtime.

(1) All SO_2 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_2 CEMS downtime, in accordance with Condition D.1.17.

(4) Actual fuel usage during each SO_2 CEMS downtime.

(c) To document compliance with the NO_X requirements in Conditions D.1.2 and D.1.14, the Permittee shall maintain records of all NO_X and CO_2 or O2 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_X 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.1.18, 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) To document the compliance status with the PSD minor limits in Conditions D.1.4, the Permittee shall maintain records of all the Dry Sorbent and PAC delivered to the source and the amount of dry ash and wet ash loaded to and from the Ash Silos . Records shall be complete and sufficient to establish compliance with the PSD minor limits as required in Condition D.1.4.

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

D.1.21 Reporting Requirements

(a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with the PM and SO_2 requirements of Conditions D.1.2, D.1.3, D.1.5, and D.1.15 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).

(d) A quarterly report of the total amount of Dry Sorbent delivered to the source to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(e) A quarterly report of the total amount of PAC delivered to the source to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(f) A quarterly report of the total amount of dry ash loaded to the ash silos to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the

reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(g) A quarterly report of the total amount of wet ash loaded from the ash silos to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(h) A quarterly report of the total PM emissions from Boiler MB1 and Boiler MB2 to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(i) A quarterly report of the total PM10 emissions from Boiler MB1 and Boiler MB2 to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(j) A quarterly report of the total PM2.5 emissions from Boiler MB1 and Boiler MB2 to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

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_2 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_X 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]

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_2) [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO_2 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]

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]

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_X) stack tests performed January 15 and January 16, 2003, Auxiliary Boilers 1 and 2 are exempted from the NO_X continuous monitoring requirement of 60.45(a).

This exemption is contingent upon continued demonstration that the NO_X 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_X 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)]

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

(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_X 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_X 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_2 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 and shall be complete and sufficient to establish compliance with the SO_2 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

(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_2 requirements:

(1) To document compliance with Condition D.2.2(b), pursuant to 40 CFR 60.45(b)(2), excess SO_2 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)]

(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)]

(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

(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]

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]

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]

(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:

$E = 55.0 P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = 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)]

(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

(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.

(g) Paved Roads.

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_R = 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.

(c) The Permittee shall control fugitive dust on paved roads by wetting or flushing with a watering truck or cleaning with a vacuum-sweeper on as needed basis.

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)]

(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

(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_2) [326 IAC 7]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO_2 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_2 [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_2) 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:

$$SO_2 \text{ Emissions (per month)} = \frac{142 \times S\% \times 22.65 \text{ MMBtu/hr} \times Hr \text{ (hrs/month)}}{H \text{ (MMBtu/kgal)} \times 2000 \text{ (lb/ton)}}$$

Where: SO_2 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]

(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

(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 and 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

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 of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility 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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 1 (MB1) from a dedicated silo)s). One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 2 (MB2) from a dedicated silo(s). One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

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

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)

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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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 1 (MB1) from a dedicated silo)s). One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 2 (MB2) from a dedicated silo(s). One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

(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_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit shall operate each source and unit in compliance with this CAIR permit.

(b) The CAIR NO_X unit(s), CAIR SO_2 unit(s), and CAIR NO_X 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)]

(a) The owners and operators, and the CAIR designated representative, of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X 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_X source, CAIR SO_2 source, and CAIR NO_X ozone season source with the CAIR NO_X emissions limitation under 326 IAC 24-1-4(c), CAIR SO_2 emissions limitation under 326 IAC 24-2-4(c), and CAIR NO_X 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)]

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X source and each CAIR NO_X unit at the source shall hold, in the source's compliance account, CAIR NO_X 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_X units at the source, as determined in accordance with 326 IAC 24-1-11.

(b) A CAIR NO_X 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_X 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_X allowance was allocated.

(d) CAIR NO_X allowances shall be held in, deducted from, or transferred into or among CAIR NO_X 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_X allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO_X annual trading program. No provision of the CAIR NO_X 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_X 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_X allowance to or from a CAIR NO_X 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)]

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO_2 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_2 units at the source, as determined in accordance with 326 IAC 24-2-10.

(b) A CAIR SO_2 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_2 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_2 allowance was allocated.

(d) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 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_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 trading program. No provision of the CAIR SO_2 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_2 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_2 allowance to or from a CAIR SO_2 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)]

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X ozone season source and each CAIR NO_X ozone season unit at the source shall hold, in the source's compliance account, CAIR NO_X 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_X ozone season units at the source, as determined in accordance with 326 IAC 24-3-11.

(b) A CAIR NO_X 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_X 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_X ozone season allowance was allocated.

(d) CAIR NO_X ozone season allowances shall be held in, deducted from, or transferred into or among CAIR NO_X 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_X ozone season allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO_X ozone season trading program. No provision of the CAIR NO_X 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_X 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_X ozone season allowance to or from a CAIR NO_X 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)]

(a) The owners and operators of a CAIR NO_X source and each CAIR NO_X unit that emits nitrogen oxides during any control period in excess of the CAIR NO_X emissions limitation shall do the following:

(1) Surrender the CAIR NO_X 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_2 source and each CAIR SO_2 unit that emits sulfur dioxide during any control period in excess of the CAIR SO_2 emissions limitation shall do the following:

(1) Surrender the CAIR SO_2 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_X ozone season source and each CAIR NO_X ozone season unit that emits nitrogen oxides during any control period in excess of the CAIR NO_X ozone season emissions limitation shall do the following:

(1) Surrender the CAIR NO_X 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)]

Unless otherwise provided, the owners and operators of the CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X 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_X unit, CAIR SO_2 unit, and CAIR NO_X 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_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program.

(d) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program or to demonstrate compliance with the requirements of the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X 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)]

(a) The CAIR designated representative of the CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit at the source shall submit the reports required under the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X 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_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X 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)]

The owners and operators of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit shall be liable as follows:

(a) Each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit shall meet the requirements of the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program.

(b) Any provision of the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program that applies to a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source or the CAIR designated representative of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source shall also apply to the owners and operators of such source and of the CAIR NO_X units, CAIR SO_2 units, and CAIR NO_X ozone season units at the source.

(c) Any provision of the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program that applies to a CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit or the CAIR designated representative of a CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X 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)]

No provision of the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X 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_X source, CAIR SO_2 source, and CAIR NO_X ozone season source or CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X 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]

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_X source, CAIR SO_2 source, and CAIR NO_X ozone season source, including all CAIR NO_X units, CAIR SO_2 units, and CAIR NO_X 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_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program concerning the source or any CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X 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_X source, CAIR SO_2 source, and CAIR NO_X 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_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance 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_X
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_2)
Limit: <40 tons per year of SO_2 emissions per consecutive 12-month period, with compliance determined at the end of each month. SO_2 emissions are calculated using the following equation:

SO_2 Emissions (per month) = $\frac{142 \times S\% \times 22.55 MMBtu/hr \times Hr (hrs/month)}{H (MMBtu/kgal) \times 2000 (lb/ton)}$

Where: SO_2 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_2 This Month	Total SO_2 Previous 11 Months	12 Month Total SO_2
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 Quarterly Report: Total Dry Sorbent delivered

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: Dry Sorbent Silos
Parameter: PSD minor limits
Limits: The Dry Sorbent delivered to the site shall be limited to 142,500 tons per twelve (12) consecutive month period for both units.

YEAR: _____

Month	THIS MONTH Tons of Dry Sorbent Delivered	PREVIOUS 11 MONTHS TOTAL Tons of Dry Sorbent Delivered	12 MONTH TOTAL Tons of Dry Sorbent Delivered

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: Total PAC delivered

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: PAC Silos
Parameter: PSD minor limits
Limits: The PAC delivered to the site shall be limited to 35,040 tons per twelve (12) consecutive month period for both units.

YEAR: _____

Month	THIS MONTH Tons of PAC Delivered	PREVIOUS 11 MONTHS TOTAL Tons of PAC Delivered	12 MONTH TOTAL Tons of PAC Delivered

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: PM emissions from MB1 and MB2 common stack

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: MB1 and MB2
Parameter: PSD minor limits
Limits: PM emissions from MB1 and MB2 common stack shall be limited to 2575 tons per twelve (12) consecutive month period.

YEAR: _____

Month	THIS MONTH PM emissions (tons)	PREVIOUS 11 MONTHS TOTAL PM emissions (tons)	12 MONTH TOTAL PM emissions (tons)

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: PM emissions from MB1 and MB2 common stack

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: MB1 and MB2
Parameter: PSD minor limits
Limits: PM10 emissions from MB1 and MB2 common stack shall be limited to 1725 tons per twelve (12) consecutive month period.

YEAR: _____

Month	THIS MONTH PM10 emissions (tons)	PREVIOUS 11 MONTHS TOTAL PM10 emissions (tons)	12 MONTH TOTAL PM10 emissions (tons)

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: PM emissions from MB1 and MB2 common stack

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: MB1 and MB2
Parameter: PSD minor limits
Limits: PM2.5 emissions from MB1 and MB2 common stack shall be limited to 746 tons per twelve (12) consecutive month period.

YEAR: _____

Month	THIS MONTH PM2.5 emissions (tons)	PREVIOUS 11 MONTHS TOTAL PM2.5 emissions (tons)	12 MONTH TOTAL PM2.5 emissions (tons)

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: Dry Ash loaded to the Ash Silos

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: Ash Silos
Parameter: PSD minor limits
Limits: The total amount of the dry ash loaded to the ash silos shall be limited to 583,742 twelve (12) consecutive month period for both units.

YEAR: _____

Month	THIS MONTH Tons of Dry Ash Loaded	PREVIOUS 11 MONTHS TOTAL Tons of Dry Ash Loaded	12 MONTH TOTAL Tons of Dry Ash Loaded

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: Wet Ash Loaded

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: Ash Silos
Parameter: PSD minor limits
Limits: The total amount of wet ash loaded from the ash silos shall be limited to 686,846 twelve (12) consecutive month period for both units.

YEAR: _____

Month	THIS MONTH Tons of Wet Ash Loaded	PREVIOUS 11 MONTHS TOTAL Tons of Wet Ash Loaded	12 MONTH TOTAL Tons of Wet Ash Loaded

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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:** _____

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

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

TO: Interested Parties / Applicant

DATE: June 15, 2011

RE: Indiana Michigan Power / 147-29844-00020

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 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, 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 and IC 13-15-6-1 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar 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.

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.

Enclosures
FNPER.dot12/03/07

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

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

Indiana Michigan Power - Rockport Plant
Dba American Electric Power (AEP)
2791 North U.S. Highway 231
Rockport, Indiana, Zip

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 [326 IAC 21] with conditions listed on the attached pages.

Operation Permit No.: AR 147-29844-00020	
Issued by: Tripurari P. Sinha Tripurari P. Sinha, Ph. D., Section Permits Branch Office of Air Quality	Issuance Date: June 15, 2011 Expiration Date: June 15, 2016

Title IV Operating Conditions

Title IV Source Description:

(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_X burners and an overfire air (OFA) system have been installed for NO_X 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 in 2008, 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_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system for NO_X 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 in 2008, 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_X) and for sulfur dioxide (SO_2) 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 40 CFR 72.30.

(b) The Permittee shall operate 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 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 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 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 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 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) 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)]

5. Nitrogen Oxides Requirements [326 IAC 21]

(a) The Permittee shall comply with the applicable acid rain emissions limitation of nitrogen oxides (NO_X) for MB1 and MB2.

(b) NO_X Emission Averaging Plan for MB1:

Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO_X emission averaging plan for MB1**,** effective until December 31, 2011. Under the plan, the NO_X emissions from MB1 shall not exceed the annual Alternative Contemporaneous Emission Limitation (ACEL) of 0.46 lb/MMBtu. In addition, MB1 shall not have an annual heat input greater than 88,636,400 MMBtu.

Beginning January 1, 2012, Unit MB1 shall not exceed the standard annual average NO_X emission limitation under 40 CFR 76.7(a)(2), of 0.46 lb/MMBtu for dry bottom wall-fired boilers, unless the designated representative timely submits a different NO_X compliance plan in the Acid Rain permit renewal application required by 40 CFR 76.9(d) and 72.30(c). As provided by 40 CFR 72.32(c), a complete Acid Rain permit application (including a new or revised NO_X compliance plan) is binding and shall be enforceable as an Acid Rain permit from the date of submission of the permit application until the issuance or denial of an Acid Rain permit covering the units.

(c) NO_X Emission Averaging Plan for MB2:

Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO_X emission averaging plan for MB2**,** effective until December 31, 2011. Under the plan, the NO_X emissions from MB2 shall not exceed the annual Alternative Contemporaneous Emission Limitation (ACEL) of 0.46 lb/MMBtu. In addition, MB2 shall not have an annual heat input greater than 93,566,400 MMBtu.

Beginning January 1, 2012, Unit MB2 shall not exceed the standard annual average NO_X emission limitation under 40 CFR 76.7(a)(2), of 0.46 lb/MMBtu for dry bottom wall-fired boilers, unless the designated representative timely submits a different NO_X compliance plan in the Acid Rain permit renewal application required by 40 CFR 76.9(d) and 72.30(c). As provided by 40 CFR 72.32(c), a complete Acid Rain permit application (including a new or revised NO_X compliance plan) is binding and shall be enforceable as an Acid Rain permit from the date of submission of the permit application until the issuance or denial of an Acid Rain permit covering the units.

(d) Permittee must annually demonstrate that MB1 and MB2 meets the NOX emission limits described in paragraphs (b) and (c) of this section except when demonstrating compliance using the provisions of paragraph (f) of this section, based upon the data from certified continuous emission monitoring systems (CEMS) located in the common stack. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.17.

(e) In addition to the described NO_X compliance plan, MB1 and MB2 shall comply with all other applicable requirements of 40 CFR 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

(f) 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; the West Virginia Department of Environmental Protection - Division of Air Quality the Texas Commission on Environmental Quality - Air Permits Division, the Oklahoma Department of Environmental Quality-Air Quality Division, and the Arkansas Department of Environmental Quality-Air Division have also approved this averaging plan.

MB1 and MB2 participate in an interstate averaging plan described in 40 CFR 76.11. Compliance with this plan shall be demonstrated using the provisions found in 40 CFR 76.11(d). Compliance with an averaging plan for the years 2012 and beyond shall be demonstrated using the procedures found in 40 CFR 76.11(d) upon approval of the plan.

(g) Under either an approved averaging plan or common stack plan, the actual Btu-weighted annual average NO_X emission rate for MB1 and MB2 shall be less than or equal to the Btu-weighted annual average NO_X 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 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11) is met for a year under the plan, then MB1 and MB2 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.

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

(a) If MB1 and 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53, IGCN 1003
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) If MB1 and 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 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 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 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53, IGCN 1003
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 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 MB1 and MB2.

(f) The designated representative of MB1 and MB2 shall provide the Permittee a copy of any submission or determination under paragraph (e) of this section, unless the Permittee expressly waives the right to receive a copy.

9. Severability [326 IAC 21]

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]

(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) MB1 and MB2 shall meet the requirements of the Acid Rain Program.

(e) Any provision of the Acid Rain Program that applies to MB1 and MB2, including a provision applicable to the designated representative of MB1 and MB2 shall also apply to the Permittee.

(f) Any provision of the Acid Rain Program that applies to MB1 and MB2, including a provision applicable to the designated representative, shall also apply to the Permittee. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_X 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 parts 72, 73, 75, 76, 77, and 78 by 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 MB1 and 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.

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Compliance Plan

Page [ ] of [ ]

For more information, see instructions and refer to 40 CFR 76.9

This submission is: [ ] New [X] Revised

STEP 1
Indicate plant name, State, and ORIS code from NADB, if applicable

Rockport	IN	6166
Plant Name	State	ORIS Code

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	MB1 ID# DBW Type	MB2 ID# DBW Type	ID# Type	ID# Type	ID# Type	ID# Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(j) NO_x Averaging Plan (include NO_x Averaging form)	[X]	[X]	[ ]	[ ]	[ ]	[ ]
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	[X]	[X]	[ ]	[ ]	[ ]	[ ]

Rockport
Plant Name (from Step 1)

STEP 2, cont'd.

	ID# MB1 / Type DBW	ID# MB2 / Type DBW	ID# / Type	ID# / Type	ID# / Type	ID# / Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)	☐	☐	☐	☐	☐	☐
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	☐	☐	☐	☐	☐	☐
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	☐	☐	☐	☐	☐	☐
(p) Repowering extension plan approved or under review	☐	☐	☐	☐	☐	☐

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

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. 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.

John M. McManus Name	
Signature John M. McManus	December 19, 2006 Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

This submission is: ☐ New ☒ Revised

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Rockport	IN	MB1	0.46	0.46	88,636,400
Rockport	IN	MB2	0.46	0.46	93,566,400
Tanners Creek	IN	U1	0.80	0.80	8,960,400
Tanners Creek	IN	U2	0.80	0.80	9,839,600
Tanners Creek	IN	U3	0.80	0.80	10,605,200
Tanners Creek	IN	U4	0.86	0.86	28,043,800
Big Sandy	KY	BSU1	0.46	0.46	16,002,200
Big Sandy	KY	BSU2	0.46	0.46	51,126,800
Conesville	OH	3	0.50	0.50	3,518,200

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
.56	≤	.56

$$\frac{\sum_{i=1}^{n} (R_{Li} \times HI_i)}{\sum_{i=1}^{n} HI_i} \leq \frac{\sum_{i=1}^{n} [R_{1i} \times HI_i]}{\sum_{i=1}^{n} HI_i}$$

Where,

R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;

R_{1i} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;

HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;

n = Number of units in the averaging plan

Rockport Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

☒ This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.

☐ Treat this plan as ☐ identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

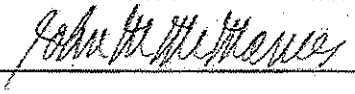
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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. 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.

John M. McManus Name	
Signature 	December 19, 2006 Date

Rockport
Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Conesville	OH	4	0.45	0.45	44,976,190
Conesville	OH	5	0.40	0.40	25,434,200
Conesville	OH	6	0.40	0.40	24,905,400
Muskingum	OH	1	0.84	0.84	8,796,800
Muskingum	OH	2	0.84	0.84	8,181,600
Muskingum	OH	3	0.86	0.86	8,251,800
Muskingum	OH	4	0.86	0.86	8,143,200
Muskingum	OH	5	0.68	0.68	35,606,400
Picway	OH	9	0.50	0.50	3,432,400
Clinch River	VA	1	0.80	0.80	11,366,000
Clinch River	VA	2	0.80	0.80	14,350,000
Clinch River	VA	3	0.80	0.80	14,544,000
Glen Lyn	VA	51	0.40	0.40	1,581,500
Glen Lyn	VA	52	0.40	0.40	1,581,500
Glen Lyn	VA	6	0.46	0.46	5,930,000
John E Amos	WV	1	0.46	0.46	52,512,000
John E Amos	WV	2	0.46	0.46	52,031,200
John E Amos	WV	3	0.68	0.68	88,228,800
Kammer	WV	1	0.86	0.86	11,214,400
Kammer	WV	2	0.86	0.86	11,570,600
Kammer	WV	3	0.86	0.86	11,498,000
Kanawha	WV	1	0.80	0.80	10,392,600
Kanawha	WV	2	0.80	0.80	9,018,200
Mitchell	WV	1	0.50	0.50	50,415,600
Mitchell	WV	2	0.50	0.50	53,611,600
Mountaineer	WV	1	0.46	0.46	97,048,400
Sporn	WV	11	0.80	0.80	7,467,000

Rockport

Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Sporn	WV	21	0.80	0.80	7,203,600
Sporn	WV	31	0.80	0.80	7,733,800
Sporn	WV	41	0.80	0.80	8,083,200
Sporn	WV	51	0.46	0.46	13,054,800
Cardinal	OH	1	0.68	0.68	37,568,400
Cardinal	OH	2	0.68	0.68	39,809,200
Cardinal	OH	3	0.46	0.46	39,209,000
Gavin	OH	1	0.68	0.68	86,301,600
Gavin	OH	2	0.68	0.68	93,845,000
Flint Creek	AR	1	0.46	0.46	37,879,000
Northeastern	OK	3313	0.40	0.40	33,560,000
Northeastern	OK	3314	0.40	0.40	35,524,000
Oklaunion	TX	1	0.46	0.46	44,826,000
Pirkey	TX	1	0.46	0.46	51,699,000
Welsh	TX	1	0.46	0.46	37,588,000
Welsh	TX	2	0.46	0.46	37,923,000
Welsh	TX	3	0.46	0.46	39,080,000

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☐ New ☒ Revised

STEP 1
Indicate plant name, State, and ORIS code from NADB, if applicable

Plant Name	State	ORIS Code
Tanners Creek	IN	988

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	U1	U2	U3	U4		
ID#						
Type	V	V	V	CY		
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	☐	☐	☐	☐	☐	☐
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	☐	☐	☐	☐	☐	☐
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	☐	☐	☐	☐	☐	☐
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	☐	☐	☐	☐	☐	☐
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	☐	☐	☐	☐	☐	☐
(j) NO_x Averaging Plan (include NO_x Averaging form)	☒	☒	☒	☒	☐	☐
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	☐	☐	☐	☐	☐	☐
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	☒	☒	☒	☐	☐	☐

Tanners Creek Plant Name (from Step 1)	NO_x Compliance - Page 2 Page 1 of 1

STEP 2, cont'd.

	ID# U1 Type V	ID# U2 Type V	ID# U3 Type V	ID# U4 Type CY	ID# Type	ID# Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)	☐	☐	☐	☐	☐	☐
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	☐	☐	☐	☐	☐	☐
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	☐	☐	☐	☐	☐	☐
(p) Repowering extension plan approved or under review	☐	☐	☐	☐	☐	☐

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(ii).
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

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. 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.

John M. McManus Name	
Signature John M. McManus	December 19, 2006 Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 75.11

This submission is: ☐ New ☒ Revised

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Rockport	IN	MB1	0.46	0.46	88,636,400
Rockport	IN	MB2	0.46	0.46	93,566,400
Tanners Creek	IN	U1	0.80	0.80	8,960,400
Tanners Creek	IN	U2	0.80	0.80	9,839,600
Tanners Creek	IN	U3	0.80	0.80	10,605,200
Tanners Creek	IN	U4	0.86	0.86	28,043,800
Big Sandy	KY	BSU1	0.46	0.46	16,002,200
Big Sandy	KY	BSU2	0.46	0.46	51,126,800
Conesville	OH	3	0.50	0.50	3,518,200

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
.56	≤	.56

$$\frac{\sum_{i=1}^{n} (R_{Li} \times HI_i)}{\sum_{i=1}^{n} HI_i} \leq \frac{\sum_{i=1}^{n} [R_{1i} \times HI_i]}{\sum_{i=1}^{n} HI_i}$$

Where,

R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;

R_{1i} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;

HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;

n = Number of units in the averaging plan

Tanners Creek
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

☒ This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.

☐ Treat this plan as ☐ identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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. 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.

John M. McManus Name	
Signature John M. McManus	December 19, 2006 Date

Tanners Creek
Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Conesville	OH	4	0.45	0.45	44,976,190
Conesville	OH	5	0.40	0.40	25,434,200
Conesville	OH	6	0.40	0.40	24,905,400
Muskingum	OH	1	0.84	0.84	8,796,800
Muskingum	OH	2	0.84	0.84	8,181,600
Muskingum	OH	3	0.86	0.86	8,251,800
Muskingum	OH	4	0.86	0.86	8,143,200
Muskingum	OH	5	0.68	0.68	35,606,400
Picway	OH	9	0.50	0.50	3,432,400
Clinch River	VA	1	0.80	0.80	11,366,000
Clinch River	VA	2	0.80	0.80	14,350,000
Clinch River	VA	3	0.80	0.80	14,544,000
Glen Lyn	VA	51	0.40	0.40	1,581,500
Glen Lyn	VA	52	0.40	0.40	1,581,500
Glen Lyn	VA	6	0.46	0.46	5,930,000
John E Amos	WV	1	0.46	0.46	52,512,000
John E Amos	WV	2	0.46	0.46	52,031,200
John E Amos	WV	3	0.68	0.68	88,228,800
Kammer	WV	1	0.86	0.86	11,214,400
Kammer	WV	2	0.86	0.86	11,570,600
Kammer	WV	3	0.86	0.86	11,498,000
Kanawha	WV	1	0.80	0.80	10,392,600
Kanawha	WV	2	0.80	0.80	9,018,200
Mitchell	WV	1	0.50	0.50	50,415,600
Mitchell	WV	2	0.50	0.50	53,611,600
Mountaineer	WV	1	0.46	0.46	97,048,400
Sporn	WV	11	0.80	0.80	7,467,000

Tanners Creek

Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Sporn	WV	21	0.80	0.80	7,203,600
Sporn	WV	31	0.80	0.80	7,733,800
Sporn	WV	41	0.80	0.80	8,083,200
Sporn	WV	51	0.46	0.46	13,054,800
Cardinal	OH	1	0.68	0.68	37,568,400
Cardinal	OH	2	0.68	0.68	39,809,200
Cardinal	OH	3	0.46	0.46	39,209,000
Gavin	OH	1	0.68	0.68	86,301,600
Gavin	OH	2	0.68	0.68	93,845,000
Flint Creek	AR	1	0.46	0.46	37,879,000
Northeastern	OK	3313	0.40	0.40	33,560,000
Northeastern	OK	3314	0.40	0.40	35,524,000
Oklaunion	TX	1	0.46	0.46	44,826,000
Pirkey	TX	1	0.46	0.46	51,699,000
Welsh	TX	1	0.46	0.46	37,588,000
Welsh	TX	2	0.46	0.46	37,923,000
Welsh	TX	3	0.46	0.46	39,080,000

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the Technical Support Document (ATSD) for an Acid Rain Part 70 Operating Permit (TITLE V)

Source Description and Location

Source Name:	Indiana Michigan Power - Rockport Plant dba America Electric Power
Source Location:	2791 North US Highway 231, Rockport, Indiana 47635
County:	Spencer
SIC Code:	4911
Permit Renewal No.:	T147-29844-00020
Permit Reviewer:	Josiah Balogun

Public Notice Information

On April 21, 2011, the Office of Air Quality (OAQ) had a notice published in The Journal democrat in Rockport, Indiana, stating that Indiana Michigan Power - Rockport Plant dba America Electric Power had applied for an Acid Rain Part 70 Operating Permit (TITLE V) to continue to operate a power plant. The notice also stated that OAQ proposed to issue an Acid Rain Title V permit for this operation and provided information on how the public could review the proposed Acid Rain Title V permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Acid Rain Title V permit should be issued as proposed.

No changes have been made to the Technical Support Document (TSD) because the OAQ prefers that the TSD reflects the permit that was public noticed. Changes that occur after the public notice are documented in this Addendum to the TSD. This accomplishes the desired result, ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Comment Received from the Source

On May 22, 2011, J.C. Hendricks of American Electric Power submitted a comment on the proposed Title V Operating Permit. The comment is summarized in the subsequent pages, with IDEM's corresponding response.

Comment 1: We have found one apparent error that was missed in the predraft review phase of the permit process. The error concerns the date "January 1, 2011" found in the second paragraph of Conditions 5b and 5c of the permit. We believe that this date should be January 1, 2012 to be consistent with the current expiration of the averaging plan referenced in paragraph 1 of this condition.

Response 1: The typos in Condition 5 - Nitrogen Oxides Requirements have been corrected in the permit accordingly.

5. Nitrogen Oxides Requirements [326 IAC 21]

(a) The Permittee shall comply with the applicable acid rain emissions limitation of nitrogen oxides (NO_X) for MB1 and MB2.

(b) NO_X Emission Averaging Plan for MB1:

Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO_X emission averaging plan for MB1**,** effective until December 31, 2011. Under the plan, the NO_X emissions from MB1 shall not exceed the annual Alternative Contemporaneous Emission Limitation (ACEL) of 0.46 lb/MMBtu. In addition, MB1 shall not have an annual heat input greater than 88,636,400 MMBtu.

Beginning January 1, **2012**~~2011~~, Unit MB1 shall not exceed the standard annual average NO_X emission limitation under 40 CFR 76.7(a)(2), of 0.46 lb/MMBtu for dry bottom wall-fired boilers, unless the designated representative timely submits a different NO_X compliance plan in the Acid Rain permit renewal application required by 40 CFR 76.9(d) and 72.30(c). As provided by 40 CFR 72.32(c), a complete Acid Rain permit application (including a new or revised NO_X compliance plan) is binding and shall be enforceable as an Acid Rain permit from the date of submission of the permit application until the issuance or denial of an Acid Rain permit covering the units.

(c) NO_X Emission Averaging Plan for MB2:

Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO_X emission averaging plan for MB2**,** effective until December 31, 2011. Under the plan, the NO_X emissions from MB2 shall not exceed the annual Alternative Contemporaneous Emission Limitation (ACEL) of 0.46 lb/MMBtu. In addition, MB2 shall not have an annual heat input greater than 93,566,400 MMBtu.

Beginning January 1, **2012**~~2011~~, Unit MB2 shall not exceed the standard annual average NO_X emission limitation under 40 CFR 76.7(a)(2), of 0.46 lb/MMBtu for dry bottom wall-fired boilers, unless the designated representative timely submits a different NO_X compliance plan in the Acid Rain permit renewal application required by 40 CFR 76.9(d) and 72.30(c). As provided by 40 CFR 72.32(c), a complete Acid Rain permit application (including a new or revised NO_X compliance plan) is binding and shall be enforceable as an Acid Rain permit from the date of submission of the permit application until the issuance or denial of an Acid Rain permit covering the units.

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Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document
For a Title IV (Acid Rain) Permit Renewal

Source Background and Description

Source Name:	Indiana Michigan Power - Rockport Plant dba American Electric Power
Source Location:	2791 North US Highway 231, Rockport, IN 47635
County: Spencer	
Designated Representative:	Plant Manager
ORIS Code:	6166
Previous Title IV (Acid Rain) Permit No.:	AR 147-16151-00020
Title IV (Acid Rain) Renewal Permit No.:	AR 147-29844-00020
Permit Reviewer:	Kimberley Malley

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) has reviewed a Title IV (Acid Rain) permit renewal application submitted by Indiana Michigan Power - Rockport Plant, dba American Electric Power on November 1, 2010. The application is for the operation of the following affected units at a station located at 2791 North US Highway 231, Rockport, Indiana.

(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_X burners and an overfire air (OFA) system have been installed for NO_X 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 in 2008, 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_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system for NO_X 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 in 2008, 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_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

This Title IV (Acid Rain) permit renewal AR 147-29844-00020, when issued, will have a term of five years and will involve the same affected units as indicated in the initial Title IV (Acid Rain) permit AR 147-16151-00020.

Existing Title IV (Acid Rain) Approvals

The source has been operating under the following previous Title IV (Acid Rain) approval:

AR 147-16151-00020, issued on August 17, 2006.

Indiana Michigan Power, dba American Electric Power was issued a Title IV permit for the Rockport Plant, effective from August 17, 2006 to August 17, 2011.

Program Description

The following information is provided to explain the Acid Rain Program.

(a) Goal of the Program

The goal of the 1990 Clean Air Act (CAA) Amendments, Acid Rain Program is to reduce the impact of man-made emissions of sulfur dioxide (SO2) and nitrogen oxide (NOx) on lakes, streams, forests, crops and, most important, the health of the public, by a nationwide SO2 allocation of emissions from power plants. While it may not seem to be a local problem, the information collected shows a need for this reduction. This is because these emissions can be transported great distances. Results of the SO2 and NOx program, along with past, present and future plans, can be found on the Internet at http://www.epa.gov/airmarkets/. Additional information in the form of maps showing the results of the SO2 and NOx limitations can be found on the Internet at http://nadp.sws.uiuc.edu/.

(b) Federal Rules

The emission allowances and conditions in this draft Title IV (Acid Rain) permit were taken from the limits developed by the U.S. EPA for the Acid Rain Program pursuant to Title IV of the Clean Air Act, 42 United States Code 7401, as amended by Public Law 101-5049 (November 15, 1990). Parts 72 through 78 of Title 40 of the Code of Federal Regulations (CFR), 61 Federal Register (FR) 59142, 61 FR 67111, 61 FR 68821, and 62 FR 3463, apply to regulated power plants.

(c) Indiana's Rules

Title 326 of the Indiana Administrative Code (IAC) Article 21, Acid Deposition Control, has adopted the federal rule by referencing 40 CFR 72 through 78, 61 FR 59142, 61 FR 67111, 61 FR 68821, and 62 FR 3463. The rule incorporates the requirements of Title IV, Clean Air Act Acid Rain Program, of the 1990 Clean Air Act (CAA).

(d) Sulfur Dioxide (SO_2) Emission Allocations

Beginning in 2010, the Clean Air Act has placed a cap at 8.95 million on the number of allowances issued to units each year. No allocations were made for new sources. New regulated power plants have to obtain sulfur dioxide emission allocations by purchasing them from pre-existing power plants that have received U.S. EPA allocations. A regulated power plant may have emission allocations to sell because the plant purchased newer, less polluting, equipment. The U.S. EPA keeps track of the transfer of all sulfur dioxide emission allocations in an official accounting system.

(e) Nitrogen Oxide Emission (NO_x) Limitations

The emission limitations for NOx under this part apply to each affected coal-fired utility unit subject to section 404(d) or 409(b) of the Act on the date the unit is required to meet the Acid Rain emissions reduction requirements for SO2.

Specific Sulfur Dioxide (SO_2) Emission Allocations

There are two affected units, identified as MB1 and MB2, in this generating station. Table 1 below summarizes the SO_2 Allowance Allocations for these units.

Table 1	
SO_2 Allowance Allocations (tons/year) for 2010 and Beyond	
Unit MB1	33061
Unit MB2	33061

Specific NO_X Compliance and Averaging Plan

There are two affected units, identified as MB1 and MB2, in this generating station. Table 2 below summarize the NOx compliance and averaging plan for these units.

Table 2			
Calendar Years 2010 and Beyond	Emission Limitation per 40 CFR 76.5, 76.6 or 76.7 (lb/MMBTU)	Alternative Limit (lb/MMBTU)	Heat Input Limit (MMBTU)
Unit MB1	0.46	0.46	94,595,000
Unit MB2	0.46	0.46	82,260,000
The BTU weighted annual emission rate average over the units if they are operated in accordance with the proposed averaging plans = BTU weighted annual average emission rate for same units operated in compliance with 40 CFR 76 = 0.46 lb/MMBTU			

The designated representative of a unit meeting the requirements of 40 CFR 76.11 (a)(1), (a)(2), and (a)(8) may submit an averaging plan to the permitting authority(ies) at any time up to and including January 1 of the calendar year for which the averaging plan is to become effective.

Emissions Monitoring Requirements

The Permittee and, to the extent applicable, the designated representative of MB1 and MB2 must comply with the monitoring requirements set out in 40 CFR 75 and 72.9(b)(1) and (2). The source must measure and record it's emissions of sulfur dioxide. The source must report these measurements to IDEM and U.S. EPA. These records and reports are used to determine if the source is in compliance with the sulfur dioxide allocation program. The requirements of the Title IV (Acid Rain) permit do not affect the source's responsibility to monitor emissions of other pollutants or other emissions characteristics required by the Clean Air Act and other operating permit provisions. Monitoring requirements outlined in the source's Title IV (Acid Rain) permit renewal application are considered as part of the Title IV (Acid Rain) renewal permit.

Other Record Keeping and Reporting Requirements

The source must keep copies of all reports and compliance certifications that it submits to demonstrate compliance with the requirements of the Title IV (Acid Rain) permit for five years. The source must submit the reports and compliance certifications required by the Title IV (Acid Rain) permit to the U.S. EPA and IDEM, OAQ. Record keeping and reporting requirements outlined in the Title IV (Acid Rain) renewal application are considered part of the Title IV (Acid Rain) renewal permit.

Submissions

The designated representative for each emissions unit must sign and certify every report or other submission required by the Title IV (Acid Rain) renewal permit. The designated representative must include the following certification statement in every submission:

> "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."

The designated representative must send the Permittee a notification regarding every submission. The designated representative must also notify the Permittee within ten (10) business days of the receipt of any written determination made by U.S. EPA or IDEM.

Draft Title IV (Acid Rain) Permit Renewal

IDEM has preliminarily determined that the source meets the requirements of Indiana Code (IC) 13-17-3-4 and IC 13-17-3-11, as well as Title IV of the Clean Air Act. IDEM proposes this draft Title IV (Acid Rain) permit renewal pursuant to 326 IAC 21.

Recommendation

The staff recommends that the Title IV Acid Rain permit renewal be approved. This recommendation is based on the following facts and conditions.

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

IDEM Contacts

(a) PermitQuestions regarding the proposed Title IV (Acid Rain) renewal permit can be directed to Kimberley Malley at the Indiana Department Environmental Management (IDEM), Office of Air Quality (OAQ), 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-9664 or toll free at 1-800-451-6027 extension 3-9664.

(b) Compliance InspectionThe source will be inspected by IDEM's compliance inspection staff. Persons seeking to obtain information regarding the source's compliance status or to report any potential violation of any permit condition should contact Dan Hancock at the Office of Air Quality (OAQ) address or by telephone at (317) 232-8429 or toll free at 1-800-451-6027 extension 2-8429.

(c) Copies

Copies of the Code of Federal Regulations (CFR) referenced in the permit may be obtained from:

Indiana Department of Environmental Management
Office of Air Quality
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Or

The Government Printing Office

Washington, D.C. 20402

Or

on the Government Printing Office website at
http://www.access.gpo.gov/nara/cfr/index.html

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

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: June 15, 2011

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

SUBJECT: Final Decision
ACID Rain
147-29844-00020

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:
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.

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

June 15, 2011

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: 147-29844-00020

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 6/15/2011 Indiana Michigan Power (dba AEP) - Rockport 147-29844-00020 (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: **CERTIFICATE OF MAILING ONLY**

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		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 *(Affected Party)*									
3		Ms. Francis Lueken 223 W. 10th Street, P.O. Box 206 Ferdinand IN 47532 *(Affected Party)*									
4		Lester Purviance 2687 East CR 600 North Grandview IN 47615 *(Affected Party)*									
5		Richard & Betty Michel 2222 E. County Rd 700 N. Grandview IN 47615 *(Affected Party)*									
6		Mr. Tim Duncan 7499 N. CR 200 E. Grandview IN 47615 *(Affected Party)*									
7		Mr. Ferman Yearby III 313 Elm Rockport IN 47635 *(Affected Party)*									
8		Spencer Co Public Library 210 N Walnut St Rockport IN 47635-1398 *(Library)*									
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 ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** 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 6/15/2011 Indiana Michigan Power (dba AEP) - Rockport 147-29844-00020 (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: **CERTIFICATE OF MAILING ONLY**

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											
4											
5											
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9											
10											
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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 ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** 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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IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF OHIO
EASTERN DIVISION

UNITED STATES OF AMERICA Plaintiff, and STATE OF NEW YORK, ET AL., Plaintiff-Intervenors, v. AMERICAN ELECTRIC POWER SERVICE CORP., ET AL., Defendants.	Consolidated Cases: Civil Action No. C2-99-1182 Civil Action No. C2-99-1250 JUDGE EDMUND A. SARGUS, JR. Magistrate Judge Terence P. Kemp
OHIO CITIZEN ACTION, ET AL., Plaintiffs, v. AMERICAN ELECTRIC POWER SERVICE CORP., ET AL., Defendants.	
UNITED STATES OF AMERICA Plaintiff, v. AMERICAN ELECTRIC POWER SERVICE CORP., ET AL., Defendants.	JUDGE EDMUND A. SARGUS, JR. Magistrate Judge Norah McCann King Civil Action No. C2-05-360 Civil Action No. C2-04-1098

ORDER ENTERING THIRD JOINT MODIFICATION TO CONSENT DECREE

This matter is before the Court on Plaintiff the United States of America's Motion to Approve the Third Joint Modification of the Consent Decree. (Doc. No. 547.) For the reasons set forth within Plaintiff's motion, the Court **GRANTS** the motion and **ENTERS** the Third Joint Modification to Consent Decree, which is attached hereto.

This Order renders moot Defendants' Application for Judicial Interpretation of the Consent Decree (Doc. No. 528) and Defendants' Motion to Strike (Doc. No. 539). These two motions are therefore **DENIED AS MOOT**.

IT IS SO ORDERED this 14th day of MAY, 2013.

EDMUND A. SARGUS, JR.
UNITED STATES DISTRICT COURT JUDGE

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF OHIO
EASTERN DIVISION

UNITED STATES OF AMERICA Plaintiff, and STATE OF NEW YORK, ET AL., Plaintiff-Intervenors, v. AMERICAN ELECTRIC POWER SERVICE CORP., ET AL., Defendants.	Consolidated Cases: Civil Action No. C2-99-1182 Civil Action No. C2-99-1250 JUDGE EDMUND A. SARGUS, JR. Magistrate Judge Terence P. Kemp
OHIO CITIZEN ACTION, ET AL., Plaintiffs, v. AMERICAN ELECTRIC POWER SERVICE CORP., ET AL., Defendants.	Civil Action No. C2-04-1098 JUDGE EDMUND A. SARGUS, JR. Magistrate Judge Norah McCann King
UNITED STATES OF AMERICA Plaintiff, v. AMERICAN ELECTRIC POWER SERVICE CORP., ET AL., Defendants.	Civil Action No. C2-05-360 JUDGE EDMUND A. SARGUS, JR. Magistrate Judge Norah McCann King

THIRD JOINT MODIFICATION TO CONSENT DECREE WITH ORDER MODIFYING CONSENT DECREE

WHEREAS On December 10, 2007, this Court entered a Consent Decree in the above-captioned matters (Case No. 99-1250, Docket # 363; Case No. 99-1182, Docket # 508).

WHEREAS Paragraph 199 of the Consent Decree provides that the terms of the Consent Decree may be modified only by a subsequent written agreement signed by the Plaintiffs and Defendants. Material modifications shall be effective only upon written approval by the Court.

WHEREAS pursuant to Paragraph 87 of the Consent Decree, as modified by a Joint Modification to Consent Decree With Order Modifying Consent Decree, filed on April 5, 2010 (Case No. 99-1250, Docket # 371), and as modified by a second Joint Modification to Consent Decree With Order Modifying Consent Decree, filed on December 28, 2010 (Case No. 99-1250, Docket # 372), the Defendants are required, *inter alia*, to install and continuously operate a Flue Gas Desulfurization System (FGD) no later than December 31, 2015 on Big Sandy Unit 2, December 31, 2015 on Muskingum River Unit 5, December 31, 2017 on Rockport Unit 1, and December 31, 2019 on Rockport Unit 2.

WHEREAS, on October 31, 2012, the Defendants filed an Application for Judicial Interpretation of Consent Decree in Case No. 99-1182 (Docket # 528) and the related cases.

WHEREAS, the United States, the States and Citizen Plaintiffs filed a Memorandum in Opposition (Case No. 99-1182, Docket # 534), and Citizen Plaintiffs filed a Supplemental Memorandum in Opposition (Case No. 99-1250, Docket # 381) to the Defendants' Application.

WHEREAS all Parties made additional filings and the Application was scheduled for a hearing on December 17, 2012.

WHEREAS, the Parties have engaged in settlement discussions and have reached

agreement on a modification to the Consent Decree as set forth herein.

WHEREAS, the Parties have agreed, and this Court by entering this Third Joint Modification finds, that this Third Joint Modification has been negotiated in good faith and at arm's length; that this settlement is fair, reasonable, and in the public interest, and consistent with the goals of the Clean Air Act, 42 U.S.C. §7401, *et seq*.; and that entry of this Third Joint Modification without further litigation is the most appropriate means of resolving this matter.

WHEREAS, the Parties agree and acknowledge that final approval of the United States and entry of this Third Joint Modification is subject to the procedures set forth in 28 CFR § 50.7, which provides for notice of this Third Joint Modification in the Federal Register, an opportunity for public comment, and the right of the United States to withdraw or withhold consent if the comments disclose facts or considerations which indicate that the Third Joint Modification is inappropriate, improper, or inadequate. No Party will oppose entry of this Third Joint Modification by this Court or challenge any provision of this Third Joint Modification unless the United States has notified the Parties, in writing, that the United States no longer supports entry of the Third Joint Modification.

NOW THEREFORE, for good cause shown, without admission of any issue of fact or law raised in the Application or the underlying litigation, the Parties hereby seek to modify the Consent Decree in this matter, and upon the filing of a Motion to Enter by the United States, move that the Court sign and enter the following Order:

1. Add a definition of "Cease Burning Coal" as new Paragraph 8A of the Consent Decree as follows:

8A. "Cease Burning Coal" means that Defendants shall permanently cease burning coal for purposes of generating electricity from a Unit, and shall submit all necessary notifications or

requests for permit amendments to reflect the permanent cessation of coal firing at the Unit.

2. Modify the definition of "Continuously Operate" in Paragraph 14 of the Consent Decree as follows:

14. "Continuously Operate" or "Continuous Operation" means that when an SCR, FGD, DSI, ESP, or Other NOx Pollution Controls are used at a Unit, except during a Malfunction, they shall be operated at all times such Unit is in operation, consistent with the technological limitations, manufacturer's specifications, and good engineering and maintenance practices for such equipment and the Unit so as to minimize emissions to the greatest extent practicable.

3. Add a new definition of "Dry Sorbent Injection" or "DSI" as new Paragraph18A of the Consent Decree as follows:

18A. "Dry Sorbent Injection" or "DSI" means a pollution control system in which a sorbent is injected into the flue gas path prior to the particulate pollution control device for the purpose of reducing SO_2 emissions. For purposes of the DSI systems required to be installed at the Rockport Units only, the DSI systems shall utilize a sodium based sorbent and be designed to inject at least 10 tons per hour of a sodium based sorbent. Defendants may utilize a different sorbent at the Rockport Units provided they obtain prior approval from Plaintiffs pursuant to Paragraph 148 of the Consent Decree.

4. Modify the definition of "Improved Unit" in Paragraph 28 of the Consent Decree as follows:

28. An "Improved Unit" for SO_2 means an AEP Eastern System Unit equipped with an FGD or scheduled under this Consent Decree to be equipped with an FGD, or required to be Retired, Retrofitted, Re-Powered, or Refueled.

The remainder of Paragraph 28 shall remain the same.

5. Add a definition of "Plant-Wide Annual Tonnage Limitation for SO_2 at Rockport" as new Paragraph 48A of the Consent Decree, as follows:

48A. "Plant-Wide Annual Tonnage Limitation for SO_2 at Rockport" means the sum of the tons of SO_2 emitted during all periods of operation from the Rockport Plant, including, without limitation, all SO_2 emitted during periods of startup, shutdown, and Malfunction, during the relevant calendar year (*i.e.*, January 1 – December 31).

6. Add a definition of "Refuel" as new Paragraph 53A of the Consent Decree, as follows:

53A. "Refuel" means, solely for purposes of this Consent Decree, the modification of a unit as necessary such that the modified unit generates electricity solely through the combustion of natural gas rather than coal, including the installation and Continuous Operation of the NO_x controls required by Section IV of this Consent Decree. Nothing herein shall prevent the reuse of any equipment at any existing unit or new emissions unit, provided that AEP applies for, and obtains, all required permits, including, if applicable, a PSD or Nonattainment NSR permit.

7. Modify the definition of "Retrofit" in Paragraph 56 of the Consent Decree as follows:

56. "Retrofit" means that the Unit must install and Continuously Operate both an SCR and an FGD, as defined in the Consent Decree. For purposes of the requirements in Paragraph 87 for the Rockport Units, "Retrofit" also means that the Unit will be equipped with a post-combustion wet- or dry-FGD system with a control technology vendor guaranteed design removal efficiency of 98% or more, and subject upon installation to a 30-Day Rolling Average Emissions Rate of 0.100 lb/mmBTU for SO_2, if the Unit burns coal with an uncontrolled SO_2 emissions rate of 3.0 lb/mmBTU or higher, or a 30-day Rolling Average Emission Rate of 0.060 lb/mmBTU if the

Unit burns coal with an uncontrolled SO_2 emissions rate below 3.0 lb/mmBTU. For the 600 MW listed in the table in Paragraph 68 and 87, "Retrofit" means that the Unit must meet a federally-enforceable 30-Day Rolling Average Emission Rate of 0.100 lb/mmBTU for NOx and a 30-Day Rolling Average Emission Rate of 0.100 lb/mmBTU for SO2, measured in accordance with the requirements of this Consent Decree.

8. Modify the Eastern System-Wide Annual Tonnage Limitations for SO_2 in the table in Paragraph 86 of the Consent Decree as follows:

86. Notwithstanding any other provision of this Consent Decree, except Section XIV (Force Majeure), during each calendar year specified in the table below, all Units in the AEP Eastern System, collectively, shall not emit SO_2 in excess of the following Eastern System-Wide Annual Tonnage Limitations:

Calendar Year(s)	**Eastern System-Wide Annual Tonnage Limitations for SO_2**	**Modified Eastern System-Wide Annual Tonnage Limitations for SO_2**
2016	~~260,000 tons~~	145,000 tons
2017	~~235,000 tons~~	145,000 tons
2018	~~184,000 tons~~	145,000 tons
2019~~, and each year thereafter~~ - 2021	~~174,000 tons~~	113,000 tons per year
2022 - 2025	~~174,000 tons~~	110,000 tons per year
2026 - 2028	~~174,000 tons~~	102,000 tons per year
2029, and each year thereafter	~~174,000 tons~~	94,000 tons per year

The remainder of the table in Paragraph 86 shall remain the same.

9. Modify the SO_2 pollution control requirements and compliance dates listed in the

table in Paragraph 87 of the Consent Decree for Big Sandy Unit 2, Muskingum River Unit 5, Rockport Units 1 and 2, and Tanners Creek Unit 4 as follows:

87. No later than the dates set forth in the table below, Defendants shall install and Continuously Operate an FGD on each Unit identified therein, or, if indicated in the table, Retire, Retrofit, ~~or~~ Re-power, or Refuel such Unit:

Unit	**SO_2 Pollution Control**	**Modified SO_2 Pollution Control**	**Date**	**Modified Date**
Big Sandy Unit 2	~~FGD~~	Retrofit, Retire, Re-power, or Refuel	December 31, 2015	NA
Muskingum River Unit 5	~~FGD~~	Cease Burning Coal and Retire Or Cease Burning Coal and Refuel	~~December 31, 2015~~	December 15, 2015 December 31, 2015, unless the Refueling project is not completed in which case the unit will be taken out of service no later than December 31, 2015 and will not restart until the Refueling project is completed. The Refueling project must be completed by June 30, 2017.
First Rockport Unit	~~FGD~~	Dry Sorbent Injection, and Retrofit, Retire, Re-power, or Refuel	~~December 31, 2017~~	April 16, 2015 December 31, 2025.
Second Rockport Unit	~~FGD~~	Dry Sorbent Injection, and	~~December 31, 2019~~	April 16, 2015 and

Unit	SO_2 Pollution Control	Modified SO_2 Pollution Control	Date	Modified Date
		Retrofit, Retire, Re-power, or Refuel		December 31, 2028.
Tanners Creek Unit 4	NA	Retire or Refuel	NA	June 1, 2015

The remainder of the table in Paragraph 87 of the Consent Decree shall remain the same, including the Joint Modifications previously made to the compliance deadlines for Amos Units 1 and 2.

10. Add a new Paragraph 89A establishing the Plant-Wide Annual Tonnage Limitations for SO_2 at Rockport, as follows:

89A. For each of the calendar years set forth in the table below, Defendants shall limit their total annual SO_2 emissions from Rockport Units 1 and 2 to Plant-Wide Annual Tonnage Limitations for SO_2 as follows:

Calendar Years	Plant-Wide Annual Tonnage Limitations for SO_2
2016 - 2017	28,000 tons per year
2018 - 2019	26,000 tons per year
2020 - 2025	22,000 tons per year
2026 - 2028	18,000 tons per year
2029, and each year thereafter	10,000 tons per year

11. Modify Paragraph 92 of the Consent Decree as follows:

92. Except as may be necessary to comply with this Section and Section XIII (Stipulated Penalties), Defendants may not use any SO_2 Allowances to comply with any requirements of this

Consent Decree, including by claiming compliance with any emission limitation, Eastern System-Wide Annual Tonnage Limitation, Plant-Wide Annual Rolling Average Tonnage Limitation for SO_2 at Clinch River, Plant-Wide Annual Tonnage Limitation for SO_2 at Kammer, or Plant-Wide Annual Tonnage Limitations for SO_2 at Rockport required by this Consent Decree by using, tendering, or otherwise applying SO_2 Allowances to achieve compliance or offset any emission above the limits specified in this Consent Decree.

12. Modify Paragraph 100 of the Consent Decree as follows:

100. To the extent an Emission Rate, 30-Day Rolling Average Removal Efficiency, Eastern System-Wide Annual Tonnage Limitation, or Plant-Wide Annual Tonnage Limitation for SO_2 is required under this Consent Decree, Defendants shall use CEMS in accordance with the reference methods specified in 40 C.F.R. Part 75 to determine the Emission Rate or annual emissions.

13. Modify Paragraph 104 of the Consent Decree as follows:

104. On or before the date established by this Consent Decree for Defendants to achieve and maintain 0.030 lb/mmBTU at Cardinal Unit 1, Cardinal Unit 2, and Muskingum River Unit 5, Defendants shall conduct a performance test for PM that demonstrates compliance with the PM Emission Rate required by this Consent Decree. Within forty-five (45) days of each such performance test, Defendants shall submit the results of the performance test to Plaintiffs pursuant to Section XVIII (Notices) of this Consent Decree. On and after the date that Muskingum River Unit 5 complies with the requirement to Cease Burning Coal pursuant to Paragraph 87 of this Consent Decree, Defendants shall no longer be obligated to comply with the performance testing requirements for Muskingum River Unit 5 contained in this Paragraph.

14. Modify Paragraph 105 of the Consent Decree as follows:

105. Beginning in calendar year 2010 for Cardinal Unit 1 and Cardinal Unit 2, and calendar year 2013 for Muskingum River Unit 5, and continuing in each calendar year thereafter, Defendants shall conduct a stack test for PM on each stack servicing Cardinal Unit 1, Cardinal Unit 2, and Muskingum River Unit 5. The annual stack test requirement imposed by this Paragraph may be satisfied by stack tests conducted by Defendants as required by their permits from the State of Ohio for any year that such stack tests are required under the permits. On and after the date that Muskingum River Unit 5 complies with the requirement to Cease Burning Coal pursuant to Paragraph 87 of this Consent Decree, Defendants shall no longer be obligated to comply with the stack testing requirements for Muskingum River Unit 5 contained in this Paragraph.

15. Modify Paragraph 119 of the Consent Decree as follows:

119. Defendants shall implement the Environmental Mitigation Projects described in Appendix A to this Consent Decree, shall fund the categories of Projects described in Subsection B, below, and shall implement the Citizen Plaintiffs' Renewable Energy Project and Citizen Plaintiffs' Mitigation Projects described in Subsection C, below, (collectively, the "Projects") in compliance with the approved plans and schedules for such Projects and other terms of this Consent Decree.

The remainder of Paragraph 119 shall remain the same.

16. Add a new Subsection C after Paragraph 128 of the Consent Decree as follows:

C. Citizen Plaintiffs' Renewable Energy Project and Citizen Plaintiffs' Mitigation Projects.

128A. Citizen Plaintiffs' Renewable Energy Project. Defendants shall implement a renewable

energy project as described below during the period from 2013 through 2019.

a. If, during the period from 2013-2015, a renewable energy production tax credit of at least 2.2 cents/kwh for ten years is available for new wind electricity production facilities upon which construction is commenced within one year or more after enactment of the tax credit (or an alternative tax benefit is available that provides sufficient economic value so that the levelized cost to customers does not exceed the weighted average cost of any existing contracts with Indiana Michigan Power Company ("I&M") for 50 MW or greater of wind capacity, adjusted for inflation) I&M will secure 200 MW of new wind energy capacity from facilities located in Indiana or Michigan that qualify for the production tax credit or alternative tax benefit within two years after enactment. For the avoidance of doubt, so long as the energy production tax credit contained in the American Taxpayer Relief Act of 2012 allows projects that have commenced construction by December 31, 2013, and that are placed in service by December 31, 2014, to qualify for the energy production tax credit provided in that Act, then I&M shall be obligated to secure new renewable energy purchase agreements for 200 MW of new wind energy capacity.

b. If a renewable energy production tax credit or alternative tax benefit as described in subparagraph a., above, is not available during 2013-2015, but becomes available during 2016-2019 for new wind electricity production facilities on which construction is commenced within one year or more after the production tax credit or alternative tax benefit is enacted, I&M will use commercially reasonable efforts to secure 200 MW of new wind energy capacity from facilities located in Indiana or Michigan that qualify for the production tax credit or alternative tax benefit within two years after enactment.

c. If a renewable energy production tax credit or alternative tax benefit as described in subparagraph a., above, is not available during the period from 2013 – 2019 for new wind electricity production facilities on which construction is commenced within one year or more after the production tax credit or alternative tax benefit is enacted, I&M shall be relieved of its obligations to secure new wind energy capacity under this Paragraph 119A.

128B. Citizen Plaintiffs' Mitigation Projects. I&M will provide $2.5 million in mitigation funding as directed by the Citizen Plaintiffs for projects in Indiana that include diesel retrofits, health and safety home repairs, solar water heaters, outdoor wood boilers, land acquisition projects, and small renewable energy projects (less than 0.5 MW) located on customer premises that are eligible for net metering or similar interconnection arrangements on or before December 31, 2014. I&M shall make payments to fund such Projects within seventy-five (75) days after being notified by the Citizen Plaintiffs in writing of the nature of the Project, the amount of funding requested, the identity and mailing address of the recipient of the funds, payment instructions, including taxpayer identification numbers and routing instructions for electronic payments, and any other information necessary to process the requested payments. Defendants shall not have approval rights for the Projects or the amount of funding requested, but in no event shall the cumulative amount of funding provided pursuant to this Paragraph 128B exceed $2.5 million.

17. Modify Paragraph 127 of the Consent Decree as follows:

127. The States, by and through their respective Attorneys General, shall jointly submit to Defendants Projects within the categories identified in this Subsection B for funding in amounts not to exceed $4.8 million per calendar year for no less than five (5) years following the Date of Entry of this Consent Decree beginning as early as calendar year 2008, and for an additional

amount not to exceed $6.0 million in 2013. The funds for these Projects will be apportioned by and among the States, and Defendants shall not have approval rights for the Projects or the apportionment. Defendants shall pay proceeds as designated by the States in accordance with the Projects submitted for funding each year within seventy-five (75) days after being notified by the States in writing. Notwithstanding the maximum annual funding limitations above, if the total costs of the projects submitted in any one or more years is less than the maximum annual amount, the difference between the amount requested and the maximum annual amount for that year will be available for funding by the Defendants of new and previously submitted projects in the following years, except that all amounts not requested by and paid to the States within eleven (11) years after the Date of Entry of this Consent Decree shall expire.

18. Modify Paragraph 133 of the Consent Decree as follows:

133. Claims Based on Modifications after the Date of Lodging of This Consent Decree. Entry of this Consent Decree shall resolve all civil claims of the United States against Defendants that arise based on a modification commenced before December 31, 2018, or, solely for the first Rockport Unit, before December 31, 2025, or, solely for the second Rockport Unit, before December 31, 2028, for all pollutants, except Particulate Matter, regulated under Parts C or D of Subchapter I of the Clean Air Act, and under regulations promulgated thereunder, as of the Date of Lodging of this Consent Decree, and:

a. where such modification is commenced at any AEP Eastern System Unit after the Date of Lodging of this Consent Decree; or

b. where such modification is one this Consent Decree expressly directs Defendants to undertake.

The remainder of Paragraph 133 shall remain the same.

19. Modify the table in Paragraph 150 of the Consent Decree as follows:

Consent Decree Violation	**Stipulated Penalty (Per Day, Per Violation, Unless Otherwise Specified)**
x. Failure to comply with the Plant-Wide Annual Tonnage Limitation for SO_2 at Rockport	$40,000 per ton, plus the surrender, pursuant to the procedures set forth in Paragraphs 95 and 96, of SO_2 Allowances in an amount equal to two times the number of tons by which the limitation was exceeded
y. Failure to fund a Citizen Plaintiffs' Mitigation Project as required by Paragraph 119B of this Consent Decree	$1,000 per day per violation during the first 30 days, $5,000 per day per violation thereafter
z. Failure to implement the Citizen Plaintiffs' Renewable Energy Project required by Paragraph 128A of this Consent Decree	$10,000 per day per violation during the first 30 days, $32,500 per day per violation thereafter

The remainder of the table in Paragraph 150 shall remain the same.

20. In addition to the requirements reflected in Appendix B (Reporting Requirements) to the Consent Decree, Defendants shall include in their Annual Report to Plaintiffs the following information:

O. Plant-Wide Annual Tonnage Limitation for SO_2 at Rockport

Beginning on March 31, 2017, and continuing annually thereafter, Defendants shall report: (a) the actual tons of SO_2 emitted from Units 1 and 2 at the Rockport Plant for the prior calendar year; (b) the Plant-Wide Annual Tonnage Limitation for SO_2 at the Rockport Plant for the prior calendar year as set forth in Paragraph 89A of the Consent Decree; and (c) for the annual reports for calendar years 2015 – 2028, Defendants shall report the daily average SO_2 emissions from the Rockport Plant expressed in lb/mmBTU, and the daily sorbent deliveries to the Rockport Plant by weight.

P. Citizen Plaintiffs' Renewable Energy Project

Beginning on March 31, 2014, and continuing each year thereafter until completion of the Citizen Plaintiffs' Renewable Energy Project, Defendants shall include a written report detailing the progress of the implementation of the Citizen Plaintiffs' Renewable Energy Project required by Paragraph 119A of the Consent Decree.

Q. Citizen Plaintiffs' Mitigation Projects

Beginning on March 31, 2013, and continuing each year until March 31, 2015, Defendants shall include a written report detailing the progress of implementation of the Citizen

Plaintiffs' Mitigation Projects required by Paragraph 119B of the Consent Decree.

R. By March 31, 2015, Defendants shall notify Plaintiffs of their intent to Retire or Refuel Muskingum River 5.

S. By March 31, 2024, Defendants shall notify Plaintiffs of their decision to Retrofit, Retire, Re-Power or Refuel the first Rockport Unit. If Defendants elect to Retrofit the Unit, Defendants shall provide with such notification, information regarding the removal efficiency guarantee requested from and obtained from the control technology vendor and the sulfur content of the fuel used to design the FGD, including any non-confidential information regarding the SO_2 control technology filed by Defendants with the public utility regulator.

T. By March 31, 2027, Defendants shall notify Plaintiffs of their decision to Retrofit, Retire, Re-power or Refuel the second Rockport Unit. If Defendants elect to Retrofit the Unit, Defendants shall provide with such notification, information regarding the removal efficiency guarantee requested from and obtained from the control technology vendor and the sulfur content of the fuel used to design the FGD, including any non-confidential information regarding the SO_2 control technology filed by Defendants with the public utility regulator.

U. If Defendants elect to Retrofit one or both of the Rockport Units, beginning in the annual reports submitted for calendar years 2026 and/or 2029, as applicable, Defendants shall report a 30-Day Rolling Average SO_2 Emission Rate for the Unit(s) that is (are) Retrofit in accordance with Paragraph 5 of the Consent Decree. In addition, Defendants shall report a 30-Day Rolling Average Uncontrolled Emission Rate for SO_2 for the Unit(s) that is(are) Retrofit based on daily as burned coal sampling and analysis or an inlet SO_2 CEMs upstream of the FGD.

The remainder of Appendix B shall remain the same.

21. Except as specifically provided in this Order, all other terms and conditions of the Consent Decree remain unchanged and in full effect.

SO ORDERED, THIS 14th DAY OF May, 2013.

HONORABLE EDMUND A. SARGUS, JR.
UNITED STATES DISTRICT COURT JUDGE

Respectfully submitted,

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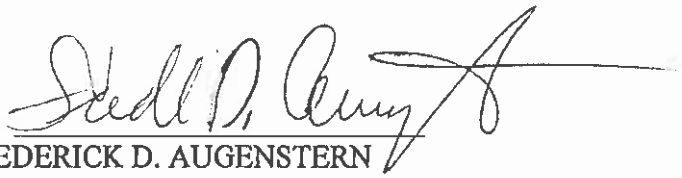
By: 
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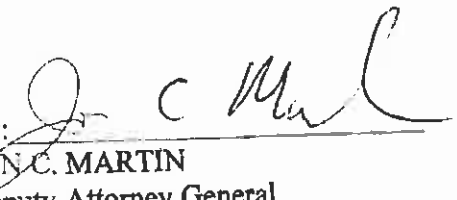
By: 
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[1] Environment America is the same entity that signed on to the original Consent Decree as United States Public Interest Research Group.

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

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 ±1.7 °C (±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 ±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 ±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.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the Technical Support Document (ATSD) for a Part 70 Significant Source Modification and Significant Permit Modifications

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
Operating Permit No.:	T 147-6786-00020
Significant Source Modification No.:	147-32890-00020
Significant Permit Modification No.:	147-32899-00020
Permit Reviewer:	Ghassan Shalabi

The Office of Air Quality (OAQ) has reviewed the Part 70 significant source modification and significant permit modification applications, submitted by Indiana Michigan Power Company, dba American Electric Power, Rockport Plant on February 27, 2013, relating to the to the construction of a new Dry Sorbent Injection (DSI) systems for Units 1 and 2, the replacement of the Unit 1 Ash silo Bin Vent Filters, separator strings, and Unit 2 Separator Strings on three of the four silos, along with modifications to the design and operation of the existing landfill to dispose of the additional combustion waste generated by the DSI systems and changes to the ACI Systems and the changes in the classification of the material being disposed. As part of the modification of the NSR Consent Decree, signed by the United States District Court for the Southern District of Ohio on May 14, 2013, Indiana Michigan Power Company has accepted federally enforceable limitations on annual SO_2 emissions from the Rockport Plant Main Boilers, identified as MB1 and MB2. As a result of this agreement, Indiana Michigan Power Company requested that SO2 limitations be placed in the Rockport Plant Title V Permit.

Public Notice Information

On July 18, 2013, the Office of Air Quality (OAQ) had a notice published in the Journal Democrat in Rockport, Indiana, stating that Indiana Michigan Power Company, dba American Electric Power, Rockport Plant had applied for a Part 70 significant source modification and significant permit modification. The notice also stated that the OAQ proposed to issue a significant source modification and the significant permit modification and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The Office of Air Quality (OAQ) received comments from Indiana Michigan Power, dba American Electric Power, Rockport Plant during the public notice period. The following is a summary of the comments. In the responses, additions to the permit are **bolded** for emphasis; ~~struck~~ language has been deleted. No changes have been made to the TSD, however, because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice.

Comments and IDEM's Responses

ROCKPORT COMMENT #1:
Section A.2(g), Section D.1 Information Box (g), and TSD page 13

The correct storage value of 360 tons of powdered activated carbon per silo is incorrectly listed in the proposed permit as 300 tons. We request that the design storage capacity of each of the existing silos be changed to 360 tons as shown in the proposed revision below, which has no impact on the emissions that may be attributed to the existing silos.

Two silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of ***360*** tons, permitted in 2008, 2010, and 2013 with particulate emissions from each silo controlled by a bin vent filter.

IDEM RESPONSE:
IDEM acknowledges the mistake in the description of the two silos. No changes will be made to the original tsd but the permit is changed as follows:

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:

***

PAC Handling and Storage Operations

***

(g) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of ~~300~~**360** tons, permitted in 2008, 2010, and 2013 with particulate emissions from each silo controlled by a bin vent filter.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

***

PAC Handling and Storage Operations

***

(g) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of ~~300~~**360** tons, permitted in 2008, 2010, and 2013 with particulate emissions from each silo 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.)

ROCKPORT COMMENT #2:
Sectio A.2(i), Section D.1 Information Box (i), and TSD page 13

Please add the word (per) as shown below in bold italics to clarify the design of the system:

Four metering pressure tanks ***per*** silo, …..

IDEM RESPONSE:
IDEM agrees with the comment. No changes will be made to the original tsd but the permit is changed as follows:

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:

***

PAC Handling and Storage Operations

***

(i) Four (4) metering pressure tanks **per** silo, with a maximum system capacity of injecting 4000 pounds per hour of halogenated or non-halogenated activated carbon into the exhaust ductwork, permitted in 2008, 2010, and 2013 with particulate emissions from the pressure tanks controlled via the silo bin vent filter.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

***

PAC Handling and Storage Operations

***

(i) Four (4) metering pressure tanks **per** silo, with a maximum system capacity of injecting 4000 pounds per hour of halogenated or non-halogenated activated carbon into the exhaust ductwork, permitted in 2008, 2010, and 2013 with particulate emissions from the pressure tanks controlled via the silo bin vent filter.

***

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

ROCKPORT COMMENT #3:
Sectio A.2(j), Section D.1 Information Box (j), and TSD page 13
Please add the following partial clause shown in bold italics to clarify the actual design of the equipment is on per unit basis:

Two (2) pneumatic truck unloading ***systems (one system per unit)*** for transferring sodium bicarbonate from up to two trucks simultaneously to the attached storage silos, …

IDEM RESPONSE:
IDEM agrees with the comment. No change is made to the original tsd but the permit is changed as follows:

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:

***

DSI Handling and Storage operation

(j) Two (2) pneumatic truck unloading ~~stations~~ **systems (one system per unit)** for transferring sodium bicarbonate from up to two transport trucks simultaneously to the attached storage silos, permitted in 2013, with particulate emissions controlled by a bin vent filter on the silo receiving the sorbent being unloaded.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

***

DSI Handling and Storage operation

(j) Two (2) pneumatic truck unloading ~~stations~~ **systems (one system per unit)** for transferring sodium bicarbonate from up to two transport trucks simultaneously to the attached storage silos, permitted in 2013, with particulate emissions controlled by a bin vent filter on the silo receiving the sorbent being unloaded.

***

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

ROCKPORT COMMENT #4:
At this time we request that IDEM confirms that the Partial Settlement Agreement filed March 11, 2011 at the office of Environmental Adjudication will remain in effect in accordance with its terms, even though several of the section numbers referenced in that settlement agreement are being changed by this SSM/SPM. We also request that IDEM confirm that it intends to incorporate the changes from the Partial Settlement Agreement into the permit as part of the upcoming Title V permit renewal.

IDEM RESPONSE:
As stated in the Partial Settlement Agreement, the Permit conditions set forth in subparagraph 4.A.-4.U, even though renumbered in this permit, will be stayed until such time that the permit is revised in accordance with that agreement. Also, as stated in the Partial Settlement Agreement, the permit will be revised in accordance with the agreement as part of IDEM issuance of AEP Title V renewal permit for the Rockport facility.

IDEM Contact

Questions regarding this proposed permit can be directed to:

Ghassan Shalabi
Indiana Department Environmental Management
Office of Air Quality
100 North Senate Avenue
MC 61-53, Room 1003
Indianapolis, Indiana 46204-2251
Toll free (within Indiana): 1-800-451-6027 extension (4-5378)
Or dial directly: (317) 234-5378
gshalabi@idem.in.gov

Please reference permit number T173-29684-00002 in all correspondence.

Indiana Department of Environmental Management
Office of Air Quality

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

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
Operating Permit No.:	T 147-6786-00020
Significant Source Modification No.:	147-32890-00020
Significant Permit Modification No.:	147-32899-00020
Permit Reviewer:	Ghassan Shalabi

Existing Approvals

The source was issued Part 70 Operating Permit No. 147-6786-00020 on August 07, 2006. The source has since received the following approvals:

(a) Minor Permit Modification No. 147-23860-00020 issued on February 20, 2007;

(b) Significant Source Modification No. 147-25360-00020 issued on September 03, 2008;

(c) Significant Permit Modification No. 147-25437-00020 issued on September 23, 2008;

(d) Exemption No. 147-26309-00020 issued on May 15, 2008; and

(e) Significant Permit Modification No. 147-27400-00020 issued on September 29, 2010

County Attainment Status

The source is located in Spencer County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective October 27, 2011, for the Ohio Twp for PM2.5. The remainder of Spencer County is unclassifiable or attainment effective April 5, 2005, for PM2.5.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Spencer County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x

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

(b) $PM_{2.5}$
Spencer County has been classified as attainment for $PM_{2.5}$. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct $PM_{2.5}$ significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants
Spencer County has been classified as attainment or unclassifiable in Indiana for SO2, CO, PM10, NO2, and Pb. 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 a stationary electric utility generating station, it is considered 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:

Pollutant	**Emissions** (ton/yr)
PM	20,932
PM_{10}	82,850
$PM_{2.5}$	23,785
SO_2	73,334
VOC	399
CO	3,462
NO_X	49,141
GHGs as CO_2e	32,204,484
HAPs	
Hydrogen Chloride	7,805.8
Hydrogen Fluoride	975.7
Cyanide	16.3
Benzene	8.46
Selenium	8.46
Benzyl Chloride	4.55
Isophorone	3.77
Acetaldehyde	3.71
Methyl Chloride	3.45
Other	27.7
Total	**8,857.81**

(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, emissions of GHGs are equal to or greater than one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2e) per year and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

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 February 27, 2013, relating to the construction of a new Dry Sorbent Injection (DSI) systems for Units 1 and 2, the replacement of the Unit 1 Ash silo Bin Vent Filters, separator strings, and Unit 2 Separator Strings on three of the four silos, along with modifications to the design and operation of the existing landfill to dispose of the additional combustion waste generated by the DSI systems and changes to the ACI Systems and the changes in the classification of the material being disposed. As part of the modification of the NSR Consent Decree, signed by the United States District Court for the Southern District of Ohio on May 14, 2013, Indiana Michigan Power Company has accepted federally enforceable limitations on annual SO_2 emissions from the Rockport Plant Main Boilers, identified as MB1 and MB2. As a result of this agreement, Indiana Michigan Power Company requested that SO2 limitations be placed in the Rockport Plant Title V Permit.

The following is a list of the proposed and modified emission units and pollution control devices:

(a) Unit 1 Dry Sorbent Injection System, Permitted in 2013, identified as (DSI-U1), consisting storage silos, pneumatic truck unloading stations and associated equipment, injection metering system that includes three metering feeders directly fed from each storage silo, blowers, and piping necessary to inject up to 10 tons per hour of sodium bicarbonate into the ductwork upstream of the electrostatic precipitators on each unit.

(b) Unit 2 Dry Sorbent Injection System, Permitted in 2013, identified as (DSI-U2), consisting storage silos, pneumatic truck unloading stations and associated equipment, injection metering system that includes three metering feeders directly fed from each storage silo, blowers, and piping necessary to inject up to 10 tons per hour of sodium bicarbonate into the ductwork upstream of the electrostatic precipitators on each unit.

(c) Modification of the existing Activated Carbon Injection (ACI) System on Units 1 and 2. This modification includes the replacement of the existing PAC feeder to increase the maximum feed rate of PAC to 4000 lb/hr from the current maximum equipment rating of 1750 lb/hr. In addition the PAC being used will be switched from a non-halogenated PAC to a halogenated PAC. Two additional 360 ton capacity silos will also be added to the system as follows:

Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(d) Modification of the design and operation of the existing landfill to dispose of the additional combustion waste generated by the DSI systems and changes to the ACI systems.

Enforcement Issues

There are no pending enforcement actions.

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.

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

Total PTE Increase due to the Modification			
Pollutant	**PTE New Emission Units** (ton/yr)	**Increase to PTE of Modified Emission Units** (ton/yr)	**Total PTE for New and Modified Units** (ton/yr)
PM	63.18	35.84	99.01
PM_{10}	35.72	14.20	49.92
$PM_{2.5}$	0.72	0.99	1.71
SO_2	0	0	0
VOC	0	0	0
CO	0	0	0
NO_X	0	0	0
HAPs	0	0	0

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because it is a modification with a potential to emit greater than or equal to twenty-five (25) tons per year of PM and PM10. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because it requires a case-by-case determination of an emission limitation or other standards.

Permit Level Determination – PSD or Emission Offset or Nonattainment NSR

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/source modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. The major modification applicability determination performed by the applicant for the project at an existing electric utility steam generating unit (EUSGU). The applicant used the actual-to-projected actual applicability test for existing EUSGU for the proposed project and submitted the applicability evaluation to IDEM as part of the permit application for this project.

	Potential to Emit (ton/yr)							
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**VOC**	**CO**	**NO_X**	**GHGs**
2013 Project Increases								
DSI System								
Truck Traffic	2.39	0.46	0.11	-	-	-	-	-
Unloading and Handling	0.05	0.03	0.12	-	-	-	-	-
Limited PTE of DSI	**2.44**	**0.49**	**0.23**	**-**	**-**	**-**	**-**	**74,641.50**
ACI System								
Truck Traffic								
Baseline	0.00	0.00	0.00	-	-	-	-	-
Future Allowable	0.36	0.07	0.02	-	-	-	-	-
Increase in emissions	0.36	0.07	0.02	-	-	-	-	-
Unloading								
Baseline	0.00	0.00	0.00	-	-	-	-	-
Future Allowable	0.01	0.01	0.00	-	-	-	-	-
Increase in emissions	0.01	0.01	0.00	-	-	-	-	-
Handling and Fluidizing								
Baseline	0.00	0.00	0.00	-	-	-	-	-
Future Allowable	0.98	0.64	0.10	-	-	-	-	-
Increase in emissions	0.98	0.64	0.10	-	-	-	-	-
ACI Emissions Increase	**1.35**	**0.72**	**0.12**	-	-	-	-	-
Combustion Waste Disposal Activities								
Ash Handling to Silos								
Baseline	37.13	37.13	18.57	-	-	-	-	-
Future Allowable	58.39	58.39	29.19	-	-	-	-	-
Increase in emissions	**21.26**	**21.26**	**10.62**	**-**	**-**	**-**	**-**	**-**
Truck Traffic								
Baseline	33.69	7.62	1.26	-	-	-	-	-
Future Allowable	55.19	12.54	2.03	-	-	-	-	-
Increase in emissions	**21.50**	**4.92**	**0.77**	**-**	**-**	**-**	**-**	**-**
Truck Loading								
Baseline	0.006	0.003	0.00	-	-	-	-	-
Future Allowable	0.01	0.00	0.00	-	-	-	-	-
Increase in emissions	**0.004**	**-0.003**	**0.00**	**-**	**-**	**-**	**-**	**-**
Disposal Activities								
Baseline	49.92	15.03	1.88	-	-	-	-	-
Future Allowable	63.05	19.04	2.37	-	-	-	-	-
Increase in emissions	**13.13**	**4.01**	**0.49**	**-**	**-**	**-**	**-**	**-**
Emissions Increase for 2013 Project	**59.69**	**31.39**	**12.23**	**-**	**-**	**-**	**-**	**-**

	Potential to Emit (ton/yr)							
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**VOC**	**CO**	**NO_X**	**GHGs**
Contemporaneous Emissions Increases								
2009 Modification to Hours of Operation of Space Heaters 147-27400-00020								
Increase in emissions	0.12	0.15	0.15	0	0.02	0.31	1.23	-
2010 ACI Modification 147-29169-00020								
PTE of new equipment								
PAC Loading and Storage	3.33	2.13	2.13	-	-	-	-	-
Paved Roads	1.45	0.28	0.04	-	-	-	-	-
Unpaved Roads	0.19	0.05	0.01	-	-	-	-	-
New Heater	0.1	0.2	0.2	4.9	0	0.3	1.4	-
Modified Equipment								
Boilers emissions due to ACI	0	0	0	0	0	0	0	0
Total Increase of 2010 Modification	5.07	2.66	2.38	4.9	0	0.3	1.4	0
Total Contemporaneous Increases	**5.19**	**2.81**	**2.53**	**4.9**	**0.02**	**0.61**	**2.63**	**-**
Contemporaneous Emissions Decreases								
Boilers MB1 and MB2 (Part of 2013 Modification)								
Baseline	2620.62	1755.82	759.98	-	-	-	-	-
Future Allowable	2575	1725.25	746.75	-	-	-	-	-
Decrease in emissions	-45.62	-30.57	-13.23	-	-	-	-	-
Total Contemporaneous Decreases	**-45.62**	**-30.57**	**-13.23**	**-**	**-**	**-**	**-**	**-**
Net Change (Project 2013 Increases + Contemp. Increases - Contemp. Decrease								
Net Emissions Increase	**19.26**	**3.63**	**1.53**	**4.90**	**0.02**	**0.61**	**2.63**	**74641.50**
Significant Levels	25	15	10	40	40	10	40	75,000

*$PM_{2.5}$ listed is direct $PM_{2.5}$.

Since this source is considered a major PSD source and the unrestricted potential to emit of this modification is greater than twenty-five (25) tons of PM per year, fifteen (15) tons of PM_{10} per year and ten (10) tons per year of PM2.5, the following enforceable limits are established for the various units:

Boiler MB1 and Boiler MB2

(1) The total PM emissions from Boiler MB1 and Boiler MB2 shall be limited to 2575 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PMCS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PMCS012}$ = a value of 0.0365 lb/MMBtu of PM for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

(2) The total PM10 emissions from Boiler MB1 and Boiler MB2 shall be limited to 1725 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PM10CS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PM10CS012}$ = a value of 0.0245 lb/MMBtu of PM10 for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

(3) The total PM2.5 emissions from Boiler MB1 and Boiler MB2 shall be limited to 746 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PM25CS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PM10CS012}$ = a value of 0.011 lb/MMBtu of PM2.5 for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

Dry Sorbent Injection System Serving Units MB1 and MB21

(1) The Dry Sorbent delivered to the site shall be limited to 142,500 tons per twelve (12) consecutive month period for both units with compliance determined at the end of each month.

(2) The PM emissions from the Sorbent Silos shall be limited to 0.73 lbs per thousand tons of dry sorbent.

(3) The PM10 emissions from the Sorbent Silos shall be limited to 0.48 lbs per thousand tons of dry sorbent.

(4) The PM2.5 emissions from the Sorbent Silos shall be limited to 0.0028 lbs per thousand tons of dry sorbent.

(5) The PM emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 33.54 lbs per thousand tons of dry sorbent.

(6) The PM10 emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 6.46 lbs per thousand tons of dry sorbent.

(7) The PM2.5 emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 1.54 lbs per thousand tons of dry sorbent.

Activated Carbon Injection System Serving Units MB1 and MB21

(1) The Activated Carbon delivered to the site shall be limited to 35,040 tons per twelve (12) consecutive month period for both units with compliance determined at the end of each month.

(2) The PM emissions from the Activated Carbon Silo bin vent filter shall be limited to 56.68 lbs per thousand tons of Activated Carbon.

(3) The PM10 emissions from the Activated Carbon Silo bin vent filter shall be limited to 36.99 lbs per thousand tons of Activated Carbon.

(4) The PM2.5 emissions from the Activated Carbon Silo bin vent filter shall be limited to 5.99 lbs per thousand tons of Activated Carbon.

(5) The PM emissions from the paved roads used for the Activated Carbon delivery shall be limited to 20.55 lbs per thousand tons of Activated carbon delivered.

(6) The PM10 emissions from the paved roads used for the Activated Carbon delivery shall be limited to 4.00 lbs per thousand tons of Activated carbon delivered.

(7) The PM2.5 emissions from the paved roads used for the Activated Carbon delivery shall be limited to 1.14 lbs per thousand tons of Activated carbon delivered.

Ash Handling to Silos

(1) The PM emissions from the Ash Silos shall be limited to 0.2 lbs per thousand tons of dry ash.

(2) The PM10 emissions from the Ash Silos shall be limited to 0.2 lbs per thousand tons of dry ash.

(3) The PM2.5 emissions from the Ash Silos shall be limited to 0.1 lbs per thousand tons of dry ash.

(4) The total amount of dry ash loaded shall be limited to 583,743 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Ash Hauling on Paved Roads

(1) The PM emissions from the paved roads used for the Ash Hauling shall be limited to 81.59 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the paved roads used for the Ash Hauling shall be limited to 15.57 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the paved roads used for the Ash Hauling shall be limited to 3.90 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Ash Hauling on Unpaved Roads

(1) The PM emissions from the unpaved roads used for the Ash Hauling shall be limited to 72.83 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the unpaved roads used for the Ash Hauling shall be limited to 19.33 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the unpaved roads used for the Ash Hauling shall be limited to 1.92 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Loading and Dumping of conditioned Ash

(1) The PM emissions from the loading and dumping of the conditioned ash shall be limited to 0.22 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the loading and dumping of the conditioned ash shall be limited to 0.1 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the loading and dumping of the conditioned ash shall be limited to 0.01 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Landfill Emissions:

(1) The PM emissions from the landfill operation for the conditioned ash shall be limited to 183.59 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the landfill operation for the conditioned ash shall be limited to 55.45 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the landfill operation for the conditioned ash shall be limited to 6.92 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable for CO_2, the Permittee shall comply with the following:

(1) The total amount of sorbent used on MB1 and MB2 at Rockport Plant shall not exceed 142,500 tons in a 12 month period.

(2) Compliance with the sorbent tonnage limit in (1) shall be determined by the use of inventory and delivery records.

Compliance with these emission limits will ensure that the net emissions increase from this modification is less than twenty-five (25) tons of PM per year, less than fifteen (15) tons of PM_{10} per year and less than ten (10) tons of PM2.5 per year and therefore will render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2013 modification.

Compliance with these requirements will ensure that the potential to emit from this modification is less than seventy five thousand (75,000) tons of CO_2 and therefore will render the requirements of 326 IAC 2-2 not applicable to the 2013 modification.

Federal Rule Applicability Determination

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

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 new emission units have the potential to emit regulated pollutants (uncontrolled) less than the major source thresholds.

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

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)

PSD 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 the DSI system 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 DSI system..

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

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	30	40.0

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:

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

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the DSI 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)
DSI Handling and Storage	50	44.60

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

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

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

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

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:

Control	Parameter	Frequency	Range	Excursions and Exceedances
Bin Vent Filter (DSI Silos)	Visible Emissions	Daily	Normal-Abnormal	Response Steps

These monitoring conditions are necessary because the bin vent filters for the DSI silos must operate properly to ensure compliance with PSD minor limits for PM, PM10 and PM2.5.

Proposed Changes

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

(a) To incorporate the addition of the DSI systems and the modification to the ACI system and the fly ash disposal facility, the permit is changed as follows:

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_X burners and an overfire air (OFA) system have been installed for NO_X 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 **and 2013**, with a **unit** maximum capacity of injecting ~~2,100~~ **4,000** pounds of **halogenated or non-halogenated** activated carbon per hour into the exhaust ductwork for ~~Boilers 1 and 2 (MB1 and MB2)~~ **Boiler 1 (MB1) from a dedicated silo)s)**. **One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1).** Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system **have been installed** for NO_X 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 **and 2013**, with a ~~combined~~ **unit** maximum capacity of injecting ~~2,100~~ **4,000** pounds of **halogenated or non-halogenated** activated carbon per hour into the exhaust ductwork for ~~Boilers 1 and 2 (MB1 and MB2)~~ **Boiler 2 (MB2) from a dedicated silo(s)**. **One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2).** Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

***

PAC Handling and Storage Operations

(f) ~~Two (2)~~ **Four (4)** pneumatic truck unloading stations**, two (2) at each set of silos,** ~~and one (1) railcar unloading station~~ for transferring **halogenated and non-halogenated**

activated carbon from transports to storage silos, permitted in 2008**,** ~~and in~~ 2010, **and 2013** with particulate emissions controlled by a bin vent filter.

(g) Two (2) silos for storing **halogenated or non-halogenated** activated carbon, each with a maximum storage capacity of ~~800~~ **300** tons, permitted in 2008**,** ~~and~~ 2010, **and 2013** with particulate emissions from each silo controlled by a bin vent filter.

(h) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(~~h~~**i)** ~~Eight (8) capacity metering pressure tanks,~~ **Four (4) metering pressure tanks silo,** ~~each~~ with a maximum **system** capacity of injecting ~~500~~ **4000** pounds per hour of **halogenated or non-halogenated** activated carbon into the exhaust ductwork, permitted in 2008**,** ~~and in~~ 2010, **and 2013** with particulate emissions **from the pressure tanks** controlled **via** ~~by a~~ **the silo** bin vent filter.

DSI Handling and Storage operation

(j) Two (2) pneumatic truck unloading stations for transferring sodium bicarbonate from up to two transport trucks simultaneously to the attached storage silos, permitted in 2013, with particulate emissions controlled by a bin vent filter on the silo receiving the sorbent being unloaded.

(k) Four (4) silos, two (2) per unit, for storing sodium bicarbonate, each with a maximum storage capacity of 1440 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(l) Injection metering system that includes three (3) metering feeders directly fed from each storage silo, blowers, and piping necessary to inject up to 10 tons per hour of sodium bicarbonate into the ductwork feeding the four electrostatic precipitators on each unit, permitted in 2013, 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_X burners and an overfire air (OFA) system have been installed for NO_X 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 **and 2013**, with a **unit** maximum capacity of injecting ~~2,100~~ **4,000** pounds of **halogenated or non-halogenated** activated carbon per hour into the exhaust ductwork for ~~Boilers 1 and 2 (MB1 and MB2)~~ **Boiler 1 (MB1) from a dedicated silo)s)**. **One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1).** Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system **have been installed** for NO_X 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 **and 2013**, with a ~~combined~~ **unit** maximum capacity of injecting ~~2,100~~ **4,000** pounds of **halogenated or non-halogenated** activated carbon per hour into the exhaust ductwork for ~~Boilers 1 and 2 (MB1 and MB2)~~ **Boiler 2 (MB2) from a dedicated silo(s)**. **One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2).** Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

PAC Handling and Storage Operations

(f) ~~Two (2)~~ **Four (4)** pneumatic truck unloading stations**, two (2) at each set of silos,** ~~and one (1) railcar unloading station~~ for transferring **halogenated and non-halogenated** activated carbon from transports to storage silos, permitted in 2008**,** ~~and in~~ 2010, **and 2013** with particulate emissions controlled by a bin vent filter.

(g) Two (2) silos for storing **halogenated or non-halogenated** activated carbon, each with a maximum storage capacity of ~~800~~ **300** tons, permitted in 2008**,** ~~and~~ 2010, **and 2013** with particulate emissions from each silo controlled by a bin vent filter.

(h) Two (2) silos for storing halogenated or non-halogenated activated carbon, each with a maximum storage capacity of 360 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(~~h~~**i)** ~~Eight (8) capacity metering pressure tanks,~~ **Four (4) metering pressure tanks silo,** ~~each~~ with a maximum **system** capacity of injecting ~~500~~ **4000** pounds per hour of **halogenated or non-halogenated** activated carbon into the exhaust ductwork, permitted in 2008**,** ~~and in~~ 2010, **and 2013** with particulate emissions **from the pressure tanks** controlled **via** ~~by a~~ **the silo** bin vent filter.

DSI Handling and Storage operation

(j) Two (2) pneumatic truck unloading stations for transferring sodium bicarbonate from up to two transport trucks simultaneously to the attached storage silos, permitted in 2013, with particulate emissions controlled by a bin vent filter on the silo receiving the sorbent being unloaded.

(k) Four (4) silos, two (2) per unit, for storing sodium bicarbonate, each with a maximum storage capacity of 1440 tons, permitted in 2013, with particulate emissions from each silo controlled by a bin vent filter.

(l) Injection metering system that includes three (3) metering feeders directly fed from each storage silo, blowers, and piping necessary to inject up to 10 tons per hour of sodium bicarbonate into the ductwork feeding the four electrostatic precipitators on each unit, permitted in 2013, 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.1.4 PSD Minor Limits [326 IAC 2-2]

(a) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

Boiler MB1 and Boiler MB2

(1) The total PM emissions from Boiler MB1 and Boiler MB2 shall be limited to 2575 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PMCS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PMCS012}$ = a value of 0.0365 lb/MMBtu of PM for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

(2) The total PM10 emissions from Boiler MB1 and Boiler MB2 shall be limited to 1725 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PM10CS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PM10CS012}$ = a value of 0.0245 lb/MMBtu of PM10 for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

(3) The total PM2.5 emissions from Boiler MB1 and Boiler MB2 shall be limited to 746 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly PM emissions shall be calculated using the following formula:

$E = (HI_{CS012} \times EF_{PM25CS012}) \times 1/2000(lb/ton)$

Where:

HI_{CS012} = Monthly Heat Input (MMBtu/month)
$EF_{PM10CS012}$ = a value of 0.011 lb/MMBtu of PM2.5 for the common stack until a value is determined from the latest IDEM approved stack test, and that value thereafter.

Dry Sorbent Injection System Serving Units MB1 and MB21

(1) The Dry Sorbent delivered to the site shall be limited to 142,500 tons per twelve (12) consecutive month period for both units with compliance determined at the end of each month.

(2) The PM emissions from the Sorbent Silos shall be limited to 0.73 lbs per thousand tons of dry sorbent.

(3) The PM10 emissions from the Sorbent Silos shall be limited to 0.48 lbs per thousand tons of dry sorbent.

(4) The PM2.5 emissions from the Sorbent Silos shall be limited to 0.0028 lbs per thousand tons of dry sorbent.

(5) The PM emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 33.54 lbs per thousand tons of dry sorbent.

(6) The PM10 emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 6.46 lbs per thousand tons of dry sorbent.

(7) The PM2.5 emissions from the paved roads used for the Dry Sorbent delivery shall be limited to 1.54 lbs per thousand tons of dry sorbent.

Activated Carbon Injection System Serving Units MB1 and MB21

(1) The Activated Carbon delivered to the site shall be limited to 35,040 tons per twelve (12) consecutive month period for both units with compliance determined at the end of each month.

(2) The PM emissions from the Activated Carbon Silo bin vent filter shall be limited to 56.68 lbs per thousand tons of Activated Carbon.

(3) The PM10 emissions from the Activated Carbon Silo bin vent filter shall be limited to 36.99 lbs per thousand tons of Activated Carbon.

(4) The PM2.5 emissions from the Activated Carbon Silo bin vent filter shall be limited to 5.99 lbs per thousand tons of Activated Carbon.

(5) The PM emissions from the paved roads used for the Activated Carbon delivery shall be limited to 20.55 lbs per thousand tons of Activated carbon delivered.

(6) The PM10 emissions from the paved roads used for the Activated Carbon delivery shall be limited to 4.00 lbs per thousand tons of Activated carbon delivered.

(7) The PM2.5 emissions from the paved roads used for the Activated Carbon delivery shall be limited to 1.14 lbs per thousand tons of Activated carbon delivered.

Ash Handling to Silos

(1) The PM emissions from the Ash Silos shall be limited to 0.2 lbs per thousand tons of dry ash.

(2) The PM10 emissions from the Ash Silos shall be limited to 0.2 lbs per thousand tons of dry ash.

(3) The PM2.5 emissions from the Ash Silos shall be limited to 0.1 lbs per thousand tons of dry ash.

(4) The total amount of dry ash loaded shall be limited to 583,743 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Ash Hauling on Paved Roads

(1) The PM emissions from the paved roads used for the Ash Hauling shall be limited to 81.59 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the paved roads used for the Ash Hauling shall be limited to 15.57 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the paved roads used for the Ash Hauling shall be limited to 3.90 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Ash Hauling on Unpaved Roads

(1) The PM emissions from the unpaved roads used for the Ash Hauling shall be limited to 72.83 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the unpaved roads used for the Ash Hauling shall be limited to 19.33 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the unpaved roads used for the Ash Hauling shall be limited to 1.92 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Loading and Dumping of conditioned Ash

(1) The PM emissions from the loading and dumping of the conditioned ash shall be limited to 0.22 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the loading and dumping of the conditioned ash shall be limited to 0.1 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the loading and dumping of the conditioned ash shall be limited to 0.01 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Landfill Emissions:

(1) The PM emissions from the landfill operation for the conditioned ash shall be limited to 183.59 lbs per thousand tons of conditioned ash.

(2) The PM10 emissions from the landfill operation for the conditioned ash shall be limited to 55.45 lbs per thousand tons of conditioned ash.

(3) The PM2.5 emissions from the landfill operation for the conditioned ash shall be limited to 6.92 lbs per thousand tons of conditioned ash.

(4) The total amount of conditioned ash loaded and dumped shall be limited to 686,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable for CO_2, the Permittee shall comply with the following:

(1) The total amount of sorbent used on MB1 and MB2 at Rockport Plant shall not exceed 142,500 tons in a 12 month period.

(2) Compliance with the sorbent tonnage limit in (1) shall be determined by the use of inventory and delivery records.

Compliance with these emission limits will ensure that the net emissions increase from this modification is less than twenty-five (25) tons of PM per year, less than fifteen (15) tons of PM_{10} per year and less than ten (10) tons of PM2.5 per year and therefore will render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2013 modification.

Compliance with these requirements will ensure that the potential to emit from this modification is less than seventy five thousand (75,000) tons of CO_2 and therefore will render the requirements of 326 IAC 2-2 not applicable to the 2013 modification.

D.1.9 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

(a) 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~~**30**	~~35.4~~**40.0**

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:

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

(b) Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the DSI 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)**
DSI Handling and Storage	**50**	**44.60**

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

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

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

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.

(g) Paved Roads.

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:

...

(c) The Permittee shall control fugitive dust on paved roads by wetting or flushing with a watering truck or cleaning with a vacuum-sweeper on an as needed basis.

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_x burners and an overfire air (OFA) system have been installed for NO_x 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_x) and for sulfur dioxide (SO_2) 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_x burners and an overfire air (OFA) system for NO_x 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_x) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.~~

(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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 1 (MB1) from a dedicated silo)s). One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system have been installed for NO_X 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, 2010 and 2013, with a unit maximum capacity of injecting 4,000 pounds of halogenated or non-halogenated activated carbon per hour into the exhaust ductwork for Boiler 2 (MB2) from a dedicated silo(s). One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

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

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_X burners and an overfire air (OFA) system have been installed for NO_X 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 **and 2013**, with a **unit** maximum capacity of injecting ~~2,100~~ **4,000** pounds of **halogenated or non-halogenated** activated carbon per hour into the exhaust ductwork for ~~Boilers 1 and 2 (MB1 and MB2)~~ **Boiler 1 (MB1) from a dedicated silo)s)**. **One (1) dry sorbent injection (DSI) system, identified as DSI-U1, permitted in 2013, with a design injection capacity of 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB1).** Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) 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_X burners and an overfire air (OFA) system **have been installed** for NO_X 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 **and 2013**, with a ~~combined~~ **unit** maximum capacity of injecting ~~2,100~~ **4,000** pounds of **halogenated or non-halogenated** activated carbon per hour into the exhaust ductwork for ~~Boilers 1 and 2 (MB1 and MB2)~~ **Boiler 2 (MB2) from a dedicated silo(s)**. **One (1) dry sorbent injection (DSI) system, identified as DSI-U2, permitted in 2013, with a combined maximum capacity of injecting 20,000 pounds of Sodium Bicarbonate per hour into the exhaust ductwork for Boilers 1 (MB2).** Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO_X) and for sulfur dioxide (SO_2) and a continuous opacity monitoring (COM) system are located on the common stack.

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

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

Part 70 Quarterly Report: Total Dry Sorbent delivered

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: **Dry Sorbent Silos**
Parameter: **PSD minor limits**
Limits: **The Dry Sorbent delivered to the site shall be limited to 142,500 tons per twelve (12) consecutive month period for both units.**

YEAR: _____

Month	THIS MONTH Tons of Dry Sorbent Delivered	PREVIOUS 11 MONTHS TOTAL Tons of Dry Sorbent Delivered	12 MONTH TOTAL Tons of Dry Sorbent Delivered

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: Total PAC delivered

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: **PAC Silos**
Parameter: **PSD minor limits**
Limits: **The PAC delivered to the site shall be limited to 35,040 tons per twelve (12) consecutive month period for both units.**

YEAR: _____

Month	THIS MONTH Tons of PAC Delivered	PREVIOUS 11 MONTHS TOTAL Tons of PAC Delivered	12 MONTH TOTAL Tons of PAC Delivered

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: Dry Ash loaded to the Ash Silos

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: **Ash Silos**
Parameter: **PSD minor limits**
Limits: **The total amount of the dry ash loaded to the ash silos shall be limited to 583,742 twelve (12) consecutive month period for both units.**

YEAR: _____

Month	THIS MONTH Tons of Dry Ash Loaded	PREVIOUS 11 MONTHS TOTAL Tons of Dry Ash Loaded	12 MONTH TOTAL Tons of Dry Ash Loaded

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: Wet Ash Loaded

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: **Ash Silos**
Parameter: **PSD minor limits**
Limits: **The total amount of wet ash loaded from the ash silos shall be limited to 686,846 twelve (12) consecutive month period for both units.**

YEAR: _____

Month	THIS MONTH Tons of Wet Ash Loaded	PREVIOUS 11 MONTHS TOTAL Tons of Wet Ash Loaded	12 MONTH TOTAL Tons of Wet Ash Loaded

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: PM emissions from MB1 and MB2 common stack

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: **MB1 and MB2**
Parameter: **PSD minor limits**
Limits: **PM emissions from MB1 and MB2 common stack shall be limited to 2575 tons per twelve (12) consecutive month period.**

YEAR: _____

Month	THIS MONTH PM emissions (tons)	PREVIOUS 11 MONTHS TOTAL PM emissions (tons)	12 MONTH TOTAL PM emissions (tons)

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: PM emissions from MB1 and MB2 common stack

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: MB1 and MB2
Parameter: PSD minor limits
Limits: PM10 emissions from MB1 and MB2 common stack shall be limited to 1725 tons per twelve (12) consecutive month period.

YEAR: _____

Month	THIS MONTH PM10 emissions (tons)	PREVIOUS 11 MONTHS TOTAL PM10 emissions (tons)	12 MONTH TOTAL PM10 emissions (tons)

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

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

Part 70 Quarterly Report: PM emissions from MB1 and MB2 common stack

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: MB1 and MB2
Parameter: PSD minor limits
Limits: PM2.5 emissions from MB1 and MB2 common stack shall be limited to 746 tons per twelve (12) consecutive month period.

YEAR: _____

Month	THIS MONTH PM2.5 emissions (tons)	PREVIOUS 11 MONTHS TOTAL PM2.5 emissions (tons)	12 MONTH TOTAL PM2.5 emissions (tons)

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

(b) As part of the modification of the NSR Consent Decree, lodged with the Federal District Court for the Southern District of Ohio on February 22, 2013, Indiana Michigan Power Company has accepted federally enforceable limitations on annual SO_2 emissions from the Rockport Plant Main Boilers, identified as MB1 and MB2. As a result of this agreement, Indiana Michigan Power Company requested that SO2 limitations be placed in the Rockport Plant Title V Permit. Therefore, the permit is changed as follows:

D.1.7 Consent Decree (Federal District Court for the Southern District of Ohio on February 22, 2013) Boiler MB1 and MB2 SO2 emission limits:

(a) "Continuously Operate" or "Continuous Operation" means that when an SCR, FGD, DSI, ESP, or Other NOx Pollution Controls are used at a Unit, except during a Malfunction, they shall be operated at all times such Unit is in operation, consistent with the technological limitations, manufacturer's specifications, and good engineering and maintenance practices for such equipment and the Unit so as to minimize emissions to the greatest extent practicable.

(b) "Dry Sorbent Injection" or "DSI" means a pollution control system in which sorbent is injected into the flue gas path prior to the particulate pollution control devices for the purpose of reducing SO2 emissions. For the purposes of DSI systems required to be installed at the Rockport Units only, the DSI systems shall utilize a sodium based sorbent and be designed to inject at least 10 tons per hour of a sodium based sorbent. Defendants may utilize a different sorbent at the Rockport Units provided they obtain prior approval from Plaintiffs pursuant to Paragraph 148 of the Consent Decree.

(c) "Plant-Wide Annual Tonnage Limitation for SO2 at Rockport" means the sum of tons of SO2 emitted during all periods of operation from the Rockport Plant, including, without limitations, all SO2 emitted during periods of startup, shutdown, and Malfunction, during relevant calendar year (i.e., January 1-December 31).

(d) The source shall install the DSI systems on Unit 1 and Unit 2 no later than April 16, 2015.

(e) Beginning January 1, 2016 and ending on December 31, 2017 Rockport Plant will be limited to emitting 28,000 tons per year of SO_2 from Boilers MB1 and MB2;

(f) Beginning January 1, 2018 and ending on December 31, 2019 Rockport Plant will be limited to emitting 26,000 tons per year of SO_2 from Boilers MB1 and MB2;

(g) Beginning January 1, 2020 and ending on December 31, 2025 Rockport Plant will be limited to emitting 22,000 tons per year of SO_2 from Boilers MB1 and MB2;

(h) Beginning January 1, 2026, one Rockport Plant main boiler must be equipped with SO_2 controls as defined in the consent decree, repowered, refueled with natural gas, or retired and MB1 and MB2 will be limited to emitting no more than 18,000 tons of SO_2 per year.

(i) Beginning January 1, 2029, the second Rockport Plant main boiler must be equipped with SO_2 controls as defined in the consent decree, repowered, refueled with natural gas, or retired and MB1 and MB2 will be limited to emitting no more than 10,000 tons of SO_2 per year.

(j) Beginning on March 31, 2017, and continuing annually thereafter, the source shall report:

(1) The actual tons of SO2 emitted from Units 1 and 2 at the Rockport plant for the prior calendar year.

(2) The Plant-Wide Annual Tonnage Limitation for SO2 at the Rockport plant for the prior year as set forth in Paragraph 89A of the consent Decree;

(3) For the annual reports for calendar years 2015-2028, the source shall report the daily average SO2 emissions from the Rockport Plant expressed in lb/MMBtu, and the daily sorbent deliveries to the Rockport Plant by weight.

(k) By March 31, 2024, Defendants shall notify Plaintiffs of their decision to Retrofit, Retire, Re-power or refuel the first Rockport Unit. If Defendants elect to Retrofit the Unit, Defendants shall provide with such notification, information regarding the removal efficiency guarantee requested from and obtained from the control technology vendor and the sulfur content of the fuel used to design the FGD, including any non-confidential information regarding the SO2 control technology filed by Defendants with public utility regulator.

(l) By March 31, 2027, Defendants shall notify Plaintiffs of their decision to Retrofit, Retire, Re-power or refuel the second Rockport Unit. If Defendants elect to Retrofit the Unit, Defendants shall provide with such notification, information regarding the removal efficiency guarantee requested from and obtained from the control technology vendor and the sulfur content of the fuel used to design the FGD, including any non-confidential information regarding the SO2 control technology filed by Defendants with public utility regulator.

(m) If Defendants elect to Retrofit one or both of the Rockport Units, beginning in the annual reports submitted for calendar years 2026 and/or 2029, as applicable, Defendants shall report a 30-Day Rolling Average SO2 Emissions Rate for the Unit(s) that is (are) Retrofit in accordance with Paragraph 5 of the Consent Decree. In addition, Defendants shall report a 30-Day Rolling Average Uncontrolled Emission Rate for SO2 for the Unit(s) that is (are) Retrofit based on daily as burned coal sampling and analysis or an inlet SO2 CEMs upstream of the FGD.

D.1.10 Particulate Control [326 IAC 2-7-6(6)]

In order to comply with Condition D.1.~~7~~**9**, 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.

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

D.1.20 Record Keeping Requirements

(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**5**, D.1.~~12~~**14**, and D.1.~~14~~**16**, 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**5**.

(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_2 requirements in Conditions D.1.2(b), D.1.3(a),

D.1.~~5~~**6**, D.1.~~12~~**14**, D.1.~~13~~**15**, and D.1.~~15~~**17**, 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_2 limit(s) as required in Conditions D.1.2(b), D.1.3(a), D.1.~~12~~**14**, and D.1.~~13~~**15**. The Permittee shall maintain records in accordance with (3) and (4) below during SO_2 CEMS malfunction or downtime.

(1) All SO_2 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_2 CEMS downtime, in accordance with Condition D.1.~~15~~**17**.

(4) Actual fuel usage during each SO_2 CEMS downtime.

(c) To document compliance with the NO_X requirements in Conditions D.1.2 and D.1.~~12~~**14**, the Permittee shall maintain records of all NO_X and CO_2 or O2 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_X 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~~**18**, 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) To document the compliance status with the PSD minor limits in Conditions D.1.4, the Permittee shall maintain records of all the Dry Sorbent and PAC delivered to the source and the amount of dry ash and wet ash loaded to and from the Ash Silos . Records shall be complete and sufficient to establish compliance with the PSD minor limits as required in Condition D.1.4.

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

D.1.21 Reporting Requirements

(a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with the PM and SO_2 requirements of Conditions D.1.2, D.1.3, D.1.~~4~~**5**, and D.1.~~12~~**15** 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).

...

(d) A quarterly report of the total amount of Dry Sorbent delivered to the source to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(e) A quarterly report of the total amount of PAC delivered to the source to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(f) A quarterly report of the total amount of dry ash loaded to the ash silos to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(g) A quarterly report of the total amount of wet ash loaded from the ash silos to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(h) A quarterly report of the total PM emissions from Boiler MB1 and Boiler MB2 to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(i) A quarterly report of the total PM10 emissions from Boiler MB1 and Boiler MB2 to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(j) A quarterly report of the total PM2.5 emissions from Boiler MB1 and Boiler MB2 to document the compliance status with PSD minor limits in Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 147-32890-00020 and Significant Permit Modification No. 147-32899-00020. The staff recommend to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Ghassan Shalabi 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 317-234-5378 or toll free at 1-800-451-6027 extension 4-5378.

(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

PSD analysis summary table.

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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

2013 Project Increases	**PM**	**PM10**	**PM2.5**	SO2	VOC	CO	Nox	GHG
Dry Sorbent Injection System								
Truck Traffic	2.39	0.46	0.11	-	-	-	-	-
Unloading and Handling	0.05	0.03	0.12	-	-	-	-	-
Limited PTE of DSI	**2.44**	**0.49**	**0.23**	-	-	-	-	74,641.50
Activated Carbon Injection System								
*~~2~~ **4** pneumatic truck unloading stations, add 2 silos, ~~8~~ **4** metering pressure tanks with capcaity of ~~500 each~~ **4000 system capacity** lb/hr*								
Truck Traffic								
Baseline	*0.00*	*0.00*	*0.00*					
Future Allowable	*0.36*	*0.07*	*0.02*					
Increase in Emissions	*0.36*	*0.07*	*0.02*					
Unloading								
Baseline	*0.00*	*0.00*	*0.00*					
Future Allowable	*0.01*	*0.01*	*0.00*					
Increase in emissions	*0.01*	*0.01*	*0.00*					
Handling and Fluidizing								
Baseline	*0.00*	*0.00*	*0.00*					
Future Allowable	*0.98*	*0.64*	*0.10*					
Increase in Emissions	*0.98*	*0.64*	*0.10*					
ACI Emission Increase	***1.35***	***0.72***	***0.12***					
Combustion Waste Disposal Activities								
Ash Handling to Silo								
Baseline	37.13	37.13	18.57					
Future Allowable	58.39	58.39	29.19					
Increase in emissions	**21.26**	**21.26**	**10.62**					
Truck Trafic								
Baseline	33.69	7.62	1.26					
Future Allowable	55.19	12.54	2.03					
Increase in emissions	**21.50**	**4.92**	**0.77**					
Truck Loading								
Baseline	0.006	0.003	0					
Future Allowable	0.01	0	0					
Increase in emissions	**0.004**	**-0.003**	**0**					
Disposal Activities								
Baseline	49.92	15.03	1.88					
Future Allowable	63.05	19.04	2.37					
Increase in emissions	**13.13**	**4.01**	**0.49**					
Emission Increase for 2013 project	**59.69**	**31.39**	**12.23**					

PSD analysis summary table.

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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

Projects during contemporaneous period:

ACI 1st Modification Issued July 29, 2010 (Permit # 147-29169-00020)
Injection rate was increased and 4 additional feed meters were added. Therefore, this is considered 1 with the 2008 project

		PM	PM10	PM2.5	SO2	VOC	CO	Nox	GHG
					PTE				
	New Equipment								
	PAC Loading and Storage	3.33	2.13	2.13	2 unloading facilities, 2 silos, 8 feed meters				
	Paved Roads	1.45	0.28	0.04					
	Unpaved Roads	0.19	0.05	0.01					
	New Heater	0.1	0.2	0.2	4.9	0	0.3	1.4	
	Modified Equipment								
	Boilers (ATPA)	**0**	**0**	**0**	*(2615.65 tpy past actuals and 2118.7 tpy projected actuc*				
Injection Rate = 9,198 tpy	**Total Increase**	**5.07**	**2.66**	**2.38**	**4.9**	**0**	**0.3**	**1.4**	

Modifying hours of oparation of sapce heaters issued on May 11, 2009 (Permit # 147-27400-00020)

	PM	PM10	PM2.5	SO2	VOC	CO	Nox
Increase in emissions	0.12	0.15	0.15	0	0.02	0.31	1.23
Total Contemporaneous Increases	5.19	2.81	2.53	4.90	0.02	0.61	2.63
Boilers MB1 and MB2							
Baseline	2620.62	1755.82	759.98	0	0	0	0
Future Allowable	2575	1725.25	746.75	0	0	0	0
Increase in emissions	**-45.62**	**-30.57**	**-13.23**	0	0	0	0
Total Contemporaneous Decreases	-45.62	-30.57	-13.23	0	0	0	0
Net Change (Project 2013 Increase + Contemp. Increases - Contemp. Decreases)	**19.26**	**3.63**	**1.53**	**4.90**	**0.02**	**0.61**	**2.63**	74641.5
Significant Level	25	15	10	40	40	10	40	75,000

Technical Support Document - Appendix A - Emission Calculations

Uncontrolled PTE Summary

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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

System/Activity	PM	PM10	PM2.5
Dry Sorbent Injection System			
Truck Traffic	11.73	2.23	0.55
Unloading and Handling	52.01	33.49	0.17
Total	**63.74**	**35.72**	**0.72**
Net Increase in PTE in the Activated Carbon Injection System			
PTE before modification	4.97	2.45	2.17
PTE after modification	14.63	8.62	1.42
Increase due to the ACI modifcation	9.66	6.17	0.00
Increase in Waste Disposal Activities	26.26	8.03	0.99
Total increase in the PTE of the modified units	35.92	14.20	0.99
Total PTE	**99.66**	**49.92**	**1.71**

Technical Support Document - Appendix A - Emission Calculations
DSI System
PTE for paved roads

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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

The following calculations determine the amount of emissions created by paved roads,
based on 8760 hours of use and AP-42, Ch 13.2.1 (Updated, 1/11).

E = [k(sL)^(0.91)*(W)^(1.02)]

E= Emission Factor
K= particle size multiplier
sL= Silt Loading

	PM	PM10	PM2.5	
K=	0.011	0.0022	0.00054	lb/VMT
sL=	12	12	12	g/m^2 from table 13.2.1-3 for concrete batching
W=	31.5	31.5	31.5	tons
E=	3.56	0.71	0.17	lb/mile

Process	Throughput (tons/hr)	Trips/hr[1]	Mile/Trip	Miles/Year[2]	Uncontrolled PTE PM (tons/yr)[3]	Uncontrolled PTE PM10 (tons/yr)[3]	Uncontrolled PTE PM2.5 (tons/yr)[3]	Control Efficiency%	Controlled PTE PM (tons/yr)[4]	Controlled PTE PM10 (tons/yr)[4]	Controlled PTE PM2.5 (tons/yr)[4]
SI-All Units	16.26	0.813	0.88	6267.25	11.73	2.23	0.55	79.6	2.39	0.46	0.11
								Controlled Emissions (lb/1000ton)	33.58	6.39	1.57

Methodology:
Throughput is based on the limit of 142,500 tpy of Sodium Bicarbonate
Truck capacity for SI is 20 tons
[1]Trips/Hour = Throughput (tons/hr)/Truck capacity (tons)
[2]Miles/year = trip/hr*mile/trip*8760 hr/year
[3]Uncontrolled PTE (tons/year) = EF(lb/mile)*Miles/year*ton/2000lbs
[4]Controlled PTE (tons/year) = Uncontrolled PTE (tons/year) * (1-control efficiency/100)
Controls are required as specified in Fugitive Dust Plan

Technical Support Document - Appendix A - Emission Calculations
DSI System
PTE for Unload and Handling

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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

Truck unloading into the Silo:

Throughput =	50	tph	per silo	
Throughput =	142,500	tpy =		142.5 kton/yr

Uncontrolled

	PM *	PM10 *	PM2.5 **
Emission Factor (lb/ton)	0.73	0.47	0.0024
		lb/kton	
Emissions (tpy)	52.01	33.49	0.17
Emissions (lb/hr)	36.50	23.50	0.12
For both units (lb/hr)	73.00	47.00	0.24

Controlled (99.9 % control efficiency)

	PM	PM10	PM2.5
Controlled Emission Factor (lb/kton)	0.73	0.47	0.0024
Emissions (tpy)	0.052	0.033	0.0002
Emissions (lb/hr)	0.037	0.024	0.0001
For both units (lb/hr)	0.07300	0.04700	0.00024
	0.730	0.470	0.002

* from Table 11.12-2 in AP-42 (Cement Loading into storage silos)
** Based on samples collected during test conducted in fall of 2011. PM2.5 = 0.005PM10
Controlled Emission Factor (lb/kton) = Emission Factor (lb/ton) * 1000 (ton/kton)*(1-.999)

Technical Support Document - Appendix A - Emission Calculations
ACI Paved Roads 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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

The following calculations determine the amount of emissions created by paved roads, based on 8760 hours of use and AP-42, Ch 13.2.1 (Updated, 1/11).

E = [k(sL)^(0.91)*(W)^(1.02)]

E= Emission Factor
K= particle size multiplier
sL= Silt Loading

	PM	PM10	PM2.5	
K=	0.011	0.0022	0.00054	lb/VMT
sL=	12	12	12	g/m^2 from table 13.2.1-3 for concrete batching
W=	25	25	25	tons
E=	2.81	0.56	0.14	lb/mile

Process	Throughput (tons/hr)	Trips/hr[1]	Mile/Trip	Miles/Year[2]	Uncontrolled PTE PM (tons/yr)[3]	Uncontrolled PTE PM10 (tons/yr)[3]	Uncontrolled PTE PM2.5 (tons/yr)[3]	Control Efficiency%	Controlled PTE PM (tons/yr)[4]	Controlled PTE PM10 (tons/yr)[4]	Controlled PTE PM2.5 (tons/yr)[4]
PAC Delivery truck	4	0.2	0.68	1191.36	1.76	0.34	0.08	79.6	0.36	0.07	0.02
								Controlled emission (lb/1000tons)	20.285	3.864	0.948

Methodology:
Throughput is based on the limit of 35,040 tpy of AC
Truck capacity for AC is 20 tons
[1]Trips/Hour = Throughput (tons/hr)/Truck capacity (tons)
[2]Miles/year = trip/hr*mile/trip*8760 hr/year
[3]Uncontrolled PTE (tons/year) = EF(lb/mile)*Miles/year*ton/2000lbs
[4]Controlled PTE (tons/year) = Uncontrolled PTE (tons/year) * (1-control efficiency/100)

Appendix A: Emission Calculations
ACI 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: **Ghassan Shalabi**
Date: **03/15/2013**

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, and 2) when it is transferred to the pressure tank from the storage silos.

LOADING tpy emission

Process Description	Maximum Throughput (tons/yr)	PM Emission Factor * (lbs/ton)	PM10 Emission Factor * (lbs/ton)	PM2.5 Emision Factor (lbs/ton)**	PTE of PM Before Controls (tons/yr)	PTE of PM10 Before Controls (tons/yr)	PTE of PM2.5 Before Controls (tons/yr)	Control Efficiency (%)	PTE of PM After Controls (tons/yr)	PTE of PM10 After Controls (tons/yr)	PTE of PM2.5 After Controls (tons/yr)
Silo Loading and Storage	35,040	0.73	0.47	0.076	12.79	8.23	1.33	99.9%	1.3E-02	8.2E-03	1.3E-03
Pressure Tank Loading	35,040	4.8E-03	2.8E-03	5.0E-04	0.084	0.049	0.009	99.9%	8.41E-05	4.9056E-05	8.76E-06

LOADING lb/hr emissions

Process Description	Maximum Throughput (ton/hr)	PM Emission Factor * (lbs/ton)	PM10 Emission Factor * (lbs/ton)	PM2.5 Emision Factor (lbs/ton)**	PTE of PM Before Controls (lb/hr)	PTE of PM10 Before Controls (lb/hr)	PTE of PM2.5 Before Controls (lb/hr)	Control Efficiency (%)	PTE of PM After Controls (lb/hr)	PTE of PM10 After Controls (lb/hr)	PTE of PM2.5 After Controls (lb/hr)
Silo Loading and Storage	30	0.73	0.47	0.076	21.90	14.10	2.28	99.9%	2.2E-02	1.4E-02	2.3E-03
Pressure Tank Loading	4	4.8E-03	2.8E-03	5.0E-04	0.019	0.011	0.002	99.9%	1.92E-05	0.0000112	0.000002

* Emission factors are from AP-42, Chapter 11.12, Table 11.12.2-2
** PM2.5 = 16.25% of PM10 based on data from NORIT Americas, one of the activated carbon suppliers used at Rockport

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 %)
PTE of PM/PM10/PM2.5 Before Controls (lb/hr) = Maximum hourly Throughput (ton/hr) x PM/PM10 Emission Factor (lbs/ton)
PTE of PM/PM10/PM2.5 After Controls (lb/hr) = PTE of PM/PM10 Before Controls (lb/hr) x (1 - Control Efficiency %)

Fluidizing air:
PAC unloading into the 2 Silos ***per unit*** *takes 1168 hrs, the remaining time or (7592 hrs) will be with 500 scfm of fluidizating air on per unit*

PM (tpy) **per unit *** = 2*[500 (sdcfm)*8176 (hr/yr)*60 (min/hr)*0.014 gr/dscf*0.00014286 (lb/gr)] =
981.14 lb/yr or 0.49 tpy or 0.11 lb/hr

* each unit has 2 silos. 1168 hrs is per 2 units. Therefore, the operating hr are 8760 -(1168/2) = 8176 hrs

PM10 (lb/hr) = 0.11 * 0.644 = 0.072 PM2.5 (lb/hr) = 0.072 * 0.162 0.012
PM10 (tpy) = 0.49 * 0.644 = 0.32 PM2.5 (tpy) = 0.32 * 0.1625 0.051

Appendix A: Emission Calculations
ACI 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: **Ghassan Shalabi**
Date: **03/15/2013**

PAC Loading and Transfer PTE Summary

Process Description	PTE of PM Before Controls (tons/yr)	PTE of PM10 Before Controls (tons/yr)	PTE of PM2.5 Before Controls (tons/yr)	Control Efficiency (%)	PTE of PM After Controls (tons/yr)	PTE of PM10 After Controls (tons/yr)	PTE of PM2.5 After Controls (tons/yr)
Silo Loading and Storage	12.79	8.23	1.33	99.9%	1.3E-02	8.2E-03	1.3E-03
Pressure Tank Loading	0.084	0.049	0.009	99.9%	8.41E-05	4.9056E-05	8.76E-06
Fluidizing air	NA	NA	NA		0.98	0.63	0.103
	12.87	**8.28**	**1.34**		**0.99**	**0.64**	**0.10**
	controlled emissions (lb/1000 ton of PAC) *				**56.16**	**36.17**	**5.88**

*** controlled emissions (lb/1000 ton of PAC) = PTE after control (ton/yr)*2000 (lb/ton)/ 35.04 (thousand ton PAC / yr)**

Appendix A: Emission Calculations
ACI PTE Summary

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: **Ghassan Shalabi**
Date: **03/15/2013**

	Uncontrolled			Controlled		
	PM	PM10	PM2.5	PM	PM10	PM2.5
PAC Delivery Roads	1.76	0.34	0.08	0.36	0.07	0.02
PAC Handling	12.87	8.28	1.34	0.99	0.64	0.10
Total	14.63	8.62	1.42	1.35	0.71	0.12

Appendix A: Emission Calculations
PTE

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: **Ghassan Shalabi**
Date: **03/15/2013**

ESP efficiency = 99.50%

With DSI and Halogenated PAC

Sodium bicarbonate injection =	10 tph =	20000	lb/hr
PAC injection =		4000	lb/hr
Acid gases =		66.8	lb/hr
SO2 emissions =		4640	lb/hr

Total	28706.8	lb/hr	or	125735.8	tpy per unit or	**<u>251471.6</u>**	tpy for both units
				628.6789	tpy after control per unit or	**<u>1257.358</u>**	tpy for both units after control

New emissions due to DSI and halogenated PAC (after control) =				28707 * (1-99.5%)	=	143.5	lb/hr
			or	143.534 (lb/hr) / 12374 MMBtu/hr =		0.012	lb/MMBtu

Appendix A: Emission Calculations
Baseline Calculations (Baseline period is January 2008 until December 2009)

Ash Silo

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.: **32890 and 32899**
Plant ID: **147-00020**
Reviewer: **Ghassan Shalabi**
Date: **03/15/2013**

Dry waste

Unit 1	189,099.50	tons over the baseline period
Unit 2	182,103.20	tons over the baseline period
Total	371,202.70	

Control efficiency on each Silo = 99.9 %

Unit 1 PM emissions 189.10

	Wet waste (conditioned waste)	Dry waste	Uncontrolled emissions	PM emissions (tpy)	PM10 emissions (tpy)	PM2.5 emissions (tpy)
Unit 1	222,470	189099.5	189118.41	18.91	18.91	9.46
Unit 2	214,329	182179.7	182197.87	18.22	18.22	9.11
Total	**436,799**	**371,279**	**371,316**	**37.13**	**37.13**	**18.57**

Dry waste = Wet Waste*(1-0.15) where 15% is the water mixing ratio
uncontrolled emissions = Dry waste/0.9999
PM emissions = uncontrolled emissions - dry waste
PM10 emissions = PM*1 (based on AP-42, table 1.1-6, for fly ash)
PM2.5 emissions = PM*0.5 (based on AP-42, table 1.1-6, for fly ash)

Ash Hauling on Paved Road 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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

The following calculations determine the amount of emissions created by paved roads,
based on 8760 hours of use and AP-42, Ch 13.2.1 (Updated, 1/11).

E = [k(sL)^(0.91)*(W)^(1.02)]

E= Emission Factor
K= particle size multiplier
sL= Silt Loading
W = Average truck wieght

	PM	PM10	PM2.5	
K=	0.011	0.0022	0.00054	lb/VMT
sL=	12	12	12	g/m^2 from table 13.2.1-3 for concrete batching
W=	15	15	15	tons
E=	1.67	0.33	0.08	lb/mile

Process	Throughput (tons/hr)	Trips/hr[1]	Mile/Trip	Miles/Year[2]	Uncontrolled PTE PM (tons/yr)[3]	Uncontrolled PTE PM10 (tons/yr)[3]	Uncontrolled PTE PM2.5 (tons/yr)[3]	Control Efficiency%	Controlled PTE PM (tons/yr)[4]	Controlled PTE PM10 (tons/yr)[4]	Controlled PTE PM2.5 (tons/yr)[4]
Unit 1	25.40	1.269806	4.48	49833.28	43.67	8.33	2.04	79.6	8.91	1.70	0.42
Unit 2	24.47	1.223	4.64	49710.5472	43.67	8.31	2.04	79.6	8.91	1.69	0.42
					87.34	16.64	4.08		17.82	3.39	0.83

Methodology:
Throughput = Conditioned Ash for the baseline period in tons/hr
Truck capacity for SI is 20 tons
[1]Trips/Hour = Throughput (tons/hr)/Truck capacity (tons)
[2]Miles/year = trip/hr*mile/trip*8760 hr/year
[3]Uncontrolled PTE (tons/year) = EF(lb/mile)*Miles/year*ton/2000lbs
[4]Controlled PTE (tons/year) = Uncontrolled PTE (tons/year) * (1-control efficiency/100)

Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Ash Handling 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

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: Ef = k * [(s/12)^a] * [(W/3)^b]

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 =	25	tons average vehicle weight

PM Emission Factor (loaded trucks) = $(4.9 \times (6.0/12)^{0.7} \times (35/3)^{0.45}) \times ((365 - 120)/365)$ = 7.83 lbs/mile

PM10 Emission Factor (loaded trucks) = $(1.5 \times (6.0/12)^{0.9} \times (35/3)^{0.45} \times ((365 - 120)/365)$ = 2.09 lbs/mile

PM2.5 Emission Factor (loaded trucks) = $(0.15 \times (6.0/12)^{0.9} \times (35/3)^{0.45} \times ((365 - 120)/365)$ = 0.21 lbs/mile

Length of Unpaved Roads in One Direction = 0.25 miles

Potential to Emit (PTE) of PM/PM10 Before Control from Loaded Trucks on Unpaved Roads:
Maximum Yearly Throughput: 436,800 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 - loaded	21,840	25	21,840	100.0%	5,460	21.38	5.70	0.57

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Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Ash Handling 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

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: Ef = k * [(s/12)^a] * [(W/3)^b]

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 =	5	tons average vehicle weight

PM Emission Factor (trucks) = $(4.9 \times (6.0/12)^{0.7} \times (15/3)^{0.45})$ = 3.80 lbs/mile

PM10 Emission Factor (trucks) = $(1.5 \times (6.0/12)^{0.9} \times (15/3)^{0.45})$ = 1.01 lbs/mile

PM2.5 Emission Factor (loaded trucks) = $(0.15 \times (6.0/12)^{0.9} \times (15/3)^{0.45})$ = 0.10 lbs/mile

Length of Unpaved Roads in One Direction = 0.25 miles

Potential to Emit (PTE) of PM/PM10 Before Control from Empty Trucks on Unpaved Roads:
Throughput: 436,800 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 - empty	21,840	5	21,840	100.0%	5,460	10.36	2.76	0.28

Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Ash Handling 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

Vehicle Type	PM (uncontrolled)	PM (controlled)	PM10 (uncontrolled)	PM10 (controlled)	PM2.5 (uncontrolled)	PM2.5 (controlled)
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Loaded Trucks	21.38	10.69	5.70	2.85	0.57	0.28
Empty Trucks	10.36	5.18	2.76	1.38	0.28	0.14
Total for Trucks on Unpaved Roads	31.74	15.87	8.46	4.23	0.85	0.42

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

Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Ash Handling total Fugitive Emissions

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

	Uncontrolled			Controlled		
	PM	PM10	PM2.5	PM	PM10	PM2.5
Paved	87.34	16.64	4.08	17.82	3.39	0.83
Unpaved	31.74	8.46	0.85	15.87	4.23	0.42
Total	119.08	25.10	4.93	33.69	7.62	1.26

Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Loading and Dumping of conditioned ash

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

The loading of the conditioned ash and the dumping of the conditioned ash at the landfill can be described by the following equation from Section 13.2.4 of AP-42 [18]:

$E = (k*0.0032)*(((U/5)^{1.3})/((M/2)^{1.4}))$
where
E = emission factor in lb/Ton of material handled
k = particle size multiplier of 0.74 for PM, 0.35 for PM_{10}, and 0.053 for $PM_{2.5}$
U = mean wind speed in mph = 7.1 mph
M = material moisture content = 15%

E (PM) = 0.00022 lb/ton
E (PM10) = 0.00011 lb/ton
E (PM2.5) = 0.00002 lb/ton

	Uncontrolled (tpy) *			Controlled (tpy) **		
	PM	PM10	PM2.5	PM	PM10	PM2.5
Unit 1 Truck Loading	0.024	0.011	0.002	0.001	0.00029	0.00004
Unit 2 truck Loading	0.024	0.011	0.002	0.001	0.00029	0.00004
Unit 1 truck unloading	0.024	0.011	0.002	0.002	0.001	0.0002
Unit 2 truck unloading	0.024	0.011	0.002	0.002	0.001	0.0002
Total	0.097	0.046	0.007	0.006	0.003	0.000

* Uncontrolled emissions are based on 436,799 tpy of wet waste from **both** Units
** 97.5% control efficieny for Loading and 90% control efficiency for unloading

Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Landfill emissions for the conditioned ash

Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plan
Address: 2791 North US Highway 231, Rockport, Indiana 4763
Permit No.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

Emissions can be described by the overburden equations for bulldozer operations and grader operations found in Table 11.9-1 of Section 11.9 in AP-42[19].
The euation used to describe the operation of the D-6 dozer and roller used to compact the material with the emissions reported in lb/hr of operation:

$PM = (5.7 * s^{1.2})/M^{1.3} = (5.7 * 15^{1.2})/12^{1.3} = 146.96 / 25.29 = 5.81$ lb/hr = **5.281** tpy for the dozer and = **3.02** tpy for the roller

$PM_{10} = 0.75 * ((1.0 * s^{1.5})/M^{1.4}) = 0.75 * ((1.0 * 15^{1.5})/12^{1.4}) = 0.75 * 1.79$ = 1.34 lb/hr = **1.22** tpy for the dozer and = **0.70** tpy for the roller

$PM_{2.5} = PM * 0.105 = 5.81 * 0.105 = 0.61$ lb/hr = **0.56** tpy for the dozer and = **0.32** tpy for the roller

Where s = silt content, taken to be 15% due to wetting
M = Material moisture content, taken to be 12% to account for drying of the material in transit and during placement.

It is assumed that the dozer operates an average of **7 hours per day** and the roller operates an average of **4 hours per day** for **260 days per year**.

Total from dozer and roller = **PM** **8.30 tpy**
PM10 **1.92 tpy**
PM2.5 = **0.87 tpy**

In addition to the D-6 dozer and roller used at the landfill, there is a size 12 Caterpillar road grader in use **7 hours per day for 260 days per year traveling an average of 7 mph** and a 5000 gallon four wheeled water truck used to wet the ash as required. The equations to describe the emissions from the grader operation are as follow:

$PM = 0.040 * S^{2.5} = 0.040 * 7.1^{2.5} = 5.37$ lb/VMT*7(mile/hr)*7(hr/day)*260(day/yr)/2000(lb/ton) = **34.21 tpy**

$PM_{10} = 0.60 * (0.051 * S^{2.0}) = 0.60 * (0.051 * 7.1^{2.0}) = 1.54$ lb/VMT*7(mile/hr)*7(hr/day)*260(day/yr)/2000(lb/ton) = **9.81 tpy**

$PM_{2.5} = PM * 0.031 = 5.37 * 0.031 = 0.167$ lb/VMT*7(mile/hr)*7(hr/day)*260(day/yr)/2000(lb/ton) = **1.06 tpy**

Where

S = mean wind speed, taken to be 7.1 mph based on 2010 Evansville Airport data.

The 500 gallon four wheeled water truck emissions will be described by the unpaved road equations previously discussed for a vehicle with **four wheels weighing a minimum of 15 tons and a maximum of 36.5 tons, with an average weight of 25.75 tons** . Half of the miles will be considered operated at full weight and the remaining miles will be considered operated at minimum weight. Conservatively, we will estimate this vehicle travels at ten miles per hour and operates **three hours per day five days per week for 260 days per year** as shown below:

For PM:

$E_{tspl} = (4.9 * (15/12)^{0.7}) * (36.5/3)^{0.45} = 5.73 * 3.07 = 17.59$ lb/VMT *10(mile/hr)*3(hr/day)*260(days/yr)/2000(lb/t)= 68.601 tpy

$E_{tspe} = (4.9 * (15/12)^{0.7}) * (15/3)^{0.45} = 5.73 * 2.06 = 11.80$ lb/VMT*10(mile/hr)*3(hr/day)*260(days/yr)/2000(lb/t)= 46.02 tpy

Average **57.31 tpy**

For PM_{10}:

$E_{pm10l} = (1.5 * (15/12)^{0.9}) * (36.5/3)^{0.45} = 1.83 * 3.07 = 5.62$ lb/VMT *10(mile/hr)*3(hr/day)*260(days/yr)/2000(lb/t)= 21.918

$E_{pm10e} = (1.5 * (15/12)^{0.9}) * (15/3)^{0.45} = 1.83 * 2.06 = 3.77$ lb/VMT *10(mile/hr)*3(hr/day)*260(days/yr)/2000(lb/t)= 14.703

Average **18.31**

For $PM_{2.5}$:

$E_{pm25l} = (0.15 * (15/12)^{0.9}) * (36.5/3)^{0.45} = 0.18 * 3.07 = 0.56$ lb/VMT *10(mile/hr)*3(hr/day)*260(days/yr)/2000(lb/t)= 2.184

$E_{pm25e} = (0.15 * (15/12)^{0.9}) * (15/3)^{0.45} = 0.18 * 2.06 = 0.37$ lb/VMT *10(mile/hr)*3(hr/day)*260(days/yr)/2000(lb/t)= 1.443

Average **1.81**

Where l is for loaded truck and e is for empty truck

The emissions in tons per year attributable to the operation of the landfill are shown in the Table bellow. We will assume that wetting of the material being placed and the pozzolanic properties of the material will result in a 50% control factor.

Baseline landfill operating emissions by equipment type and unit in tons per year.

	Uncontrolled Emissions			Controlled Emissions at 50% Control		
	TSP	**PM_{10}**	**$PM_{2.5}$**	**TSP**	**PM_{10}**	**$PM_{2.5}$**
Dozer/Roller	8.31	1.92	0.87	4.15	0.96	0.44
Grader	34.21	9.81	1.06	17.11	4.91	0.53
Water Truck	57.31	18.31	1.81	28.66	9.16	0.91
Total (TPY)	87.78	26.71	3.2	49.92	15.03	1.88

Appendix A: Emission Calculations
Baseline Calculation (Baseline period is January 2008 until December 2009)

Landfill emissions for the conditioned ash

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

Total controlled baseline landfill related emissions in tons per year.

Activity	PM	PM10	PM2.5
Ash Handling to Silo	37.13	37.13	18.57
Trucking to Landfill	33.69	7.62	1.26
Truck Loading and disposing	0.006	0.003	0.000
Landfill Operations	49.92	15.03	1.88
Total	120.75	59.79	21.70

Appendix A: Emission Calculations
Increase in emission from ash silos
Due to DSI installation and PAC 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 04/3/2013

Increase in waste disposed =			212540 tpy
Total waste after the increase			583,742.70 tpy
Contro efficiency =			99.99 %
Controlled emissions from Ash Silos			
PM	21.3	tpy	
PM10	21.3	tpy	
PM2.5	10.6	tpy	
Total emissions after the increase (tpy)	58.39	58.39	29.19
Total emissions after the increase (lb/1000 ton)	200.04	200.04	100.02

Where
PM10 emissions = PM*1 (based on AP-42, table 1.1-6, for fly ash)
PM2.5 emissions = PM*0.5 (based on AP-42, table 1.1-6, for fly ash)

Increase in Ash Hauling **Paved** Road 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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

The source estimates the total increase in the number of trucks = 12503 trucks per year

Process	Number of trucks	Uncontrolled PM emissions (tpy) *	Uncontrolled PM10 emissions (tpy) *	Uncontrolled PM2.5 emissions (tpy) *	Control Efficiency	Controlled PM emissions (tpy)[4]	Controlled PM10 emissions (tpy)[4]	Controlled PM2.5 emissions (tpy)[4]
Unit 1	6377	25.0	4.8	1.2	79.6	5.11	0.97	0.24
Unit 2	6126	24.0	4.6	1.1	79.6	4.91	0.93	0.23
Total	12503.00	49.08	9.35	2.29	159.20	10.20	1.91	0.47
				Total controlled emissions after increase (tpy)		28.02	5.30	1.30
				Total controlled emissions after increase (lb/1000 ton)		81.58	15.44	3.79

*Emissions are calculated based on the number of trucks compared to 11,124 trucks for unit 1 and 10,716 trucks for for unit 2

[4]Controlled PTE (tons/year) = Uncontrolled PTE (tons/year) * (1-control efficiency/100)

Appendix A: Emission Calculations

Increase in 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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/20133

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: Ef= k * [(s/12)^a] * [(W/3)^b]

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=	25	tons average vehicle weight

PM Emission Factor (loaded trucks) = $(4.9 \times (6.0/12)^{0.7} \times (35/3)^{0.45}) \times ((365 - 120)/365)$ = 7.83 lbs/mile

PM10 Emission Factor (loaded trucks) = $(1.5 \times (6.0/12)^{0.9} \times (35/3)^{0.45 \times} ((365 - 120)/365)$ = 2.09 lbs/mile

PM2.5 Emission Factor (loaded trucks) = $(0.15 \times (6.0/12)^{0.9} \times (35/3)^{0.45 \times} ((365 - 120)/365)$ = 0.21 lbs/mile

Length of Unpaved Roads in One Direction = 0.25 miles

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

Potential to Emit (PTE) of PM/PM10 Before Control from Loaded Trucks on Unpaved Roads:
Throughput: 250,060 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 - loaded	12,503	25	12,503	100.0%	3,126	12.24	3.26	0.33
						21.38	5.70	0.57
Empty Trucks						21379.92461	5697.645	569.7645
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:						0.031127683	0.008295	0.00083

Method: Ef = k * [(s/12)^a] * [(W/3)^b]

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 =	5	tons average vehicle weight

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

PM Emission Factor (trucks) = $(4.9 \times (6.0/12)^{0.7} \times (15/3)^{0.45})$ = 3.80 lbs/mile

PM10 Emission Factor (trucks) = $(1.5 \times (6.0/12)^{0.9} \times (15/3)^{0.45}$ = 1.01 lbs/mile

PM2.5 Emission Factor (loaded trucks) = $(0.15 \times (6.0/12)^{0.9} \times (15/3)^{0.45}$ = 0.10 lbs/mile

Length of Unpaved Roads in One Direction = 0.25 miles

Potential to Emit (PTE) of PM/PM10 Before Control from Empty Trucks on Unpaved Roads:
Throughput: 436,800 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 - empty	21,840	5	21,840	100.0%	5,460	10.36	2.76	0.28

Vehicle Type	PM (uncontrolled)	PM (controlled)	PM10 (uncontrolled)	PM10 (controlled)	PM2.5 (uncontrolled)	PM2.5 (controlled)
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Loaded Trucks	12.24	6.12	3.26	1.63	0.33	0.16
Empty Trucks	10.36	5.18	2.76	1.38	0.28	0.14
Total for Trucks on Unpaved Roads	22.60	11.30	6.02	3.01	0.60	0.30
Total controlled emissions after the increase (tpy)				27.17	7.24	0.72
Total controlled emissions after the increase (lb/1000 tons))				79.12	21.09	2.11

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
Control Efficiency = 50%

Appendix A: Emission Calculations
Increase in Fugitive Emissions from Paved and 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.: 32890 and 32899
Plant ID: **147-00020**
Reviewer: Ghassan Shalabi
Date: 03/20/20133

	Uncontrolled			Controlled		
	PM	**PM10**	**PM2.2**	**PM**	**PM10**	**PM2.5**
Paved Roads	49.08	9.35	2.29	10.20	1.91	0.47
Unpaved Roas	22.60	6.02	0.60	11.30	3.01	0.30
Total	71.69	15.37	2.90	21.50	4.92	0.77

Total controlled emissions after the increase (tpy)	55.19	12.54	2.03
Total controlled emissions after the increase(lb/1000 ton)	160.70	36.52	5.90

Increase in waste handling 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 Number: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 3/14/2013

The loading of the conditioned ash and the dumping of the conditioned ash at the landfill can be described by the following equation from Section 13.2.4 of AP-42[18]:

$E = (k*0.0032)*(((U/5)^{1.3})/((M/2)^{1.4}))$

where

E = emission factor in lb/Ton of material handled
k = particle size multiplier of 0.74 for TSP, 0.35 for PM_{10}, and 0.053 for $PM_{2.5}$
U = mean wind speed in mph = 7.1 mph
M = material moisture content = 15%

$E_{PM} = (0.74*0.0032)*(((7.1/5)^{1.3})/((15/2)^{1.4})) = 0.00022$ lb/Ton

$E_{PM10} = (0.35*0.0032)*(((7.1/5)^{1.3})/((15/2)^{1.4})) = 0.00011$ lb/Ton

$E_{PM2.5} = (0.053*0.0032)*(((7.1/5)^{1.3})/((15/2)^{1.4})) = 0.00002$ lb/Ton

increase in waste handling emissions

	Uncontrolled			Controlled		
	PM	**PM10**	**PM2.5**	**PM**	**PM10**	**PM2.5**
Truck Loading	0.028	0.014	0.003	0.0007	0.0003	0.0001
Truck Unloading	0.028	0.014	0.003	0.0007	0.0003	0.0001
Total	0.055	0.028	0.005	0.006	0.003	0.001

Increase in conditioned Ash throughput = 250,047 tpy

97.5% reduction for truck loading operations and a 90% reduction for the dumping of the material at the landfill.

Total Emissions after increase (tpy)	0.012	0.006	0.001
	0.035	0.017	0.004

Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plan
Address: 2791 North US Highway 231, Rockport, Indiana 4763
Permit No.: 32890 and 3289
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

Emissions can be described by the overburden equations for bulldozer operations and grader operations found in Table 11.9-1 of Section 11.9 in AP-42 [19].

For the D-6 dozer and the roller:

$PM = (5.7 * s^{1.2})/M^{1.3} = (5.7 * 15^{1.2})/12^{1.3} = 146.96 / 25.29 = 5.81$ lb/hr

$PM_{10} = 0.75 * ((1.0 * s^{1.5})/M^{1.4}) = 0.75 * ((1.0 * 15^{1.5})/12^{1.4}) = 0.75 * 1.79$ 1.34 lb/hr

$PM_{2.5} = PM * 0.105 = 5.81 * 0.105 = 0.61$ lb/hr

Where

s = silt content, taken to be 15% due to wetting
M = Material moisture content, taken to be 12% to account for drying of the material in transit and during placement.

It is assumed that the operation of the dozer will increase by 1 hour per day and the operation of the roller will increase by 2 hours per day fo260 days per year.

The operation of the 12 Caterpillar road grader will increase by 1 hour per day for 260 days per year traveling an average of 7 mph. The equations to describe the emissions from the grader operation are as follow:

$PM = 0.040 * S^{2.5} = 0.040 * 7.1^{2.5} = 5.37$ lb/VMT

$PM_{10} = 0.60 * (0.051 * S^{2.0}) = 0.60 * (0.051 * 7.1^{2.0}) = 1.54$ lb/VMT

$PM_{2.5} = TSP * 0.031 = 5.37 * 0.031 = 0.167$ lb/VMT

Where

S = mean wind speed, taken to be 7.1 mph based on 2010 Evansville Airport data.

The water truck emissions will be described by the unpaved road equations, with an average weight of 25.75 tons. Half of the miles will be considered operated at full weight and the remaining miles will be considered operated at minimum weight. We will estimate this vehicle travels at ten miles per hour and its operation will increase by 1 hours per day five days per week for 260 days per year as shown below:

For PM:

$E_{PMl} = (4.9 * (15/12)^{0.7}) * (36.5/3)^{0.45} = 5.73 * 3.07 = 17.59$ lb/VMT = 22.867 tpy

$E_{PMe} = (4.9 * (15/12)^{0.7}) * (15/3)^{0.45} = 5.73 * 2.06 = 11.80$ lb/VMT = 15.34 tpy

Average = 19.10 tpy

For PM_{10}:

$E_{pm10l} = (1.5 * (15/12)^{0.9}) * (36.5/3)^{0.45} = 1.83 * 3.07 = 5.62$ lb/VMT = 7.306

$E_{pm10e} = (1.5 * (15/12)^{0.9}) * (15/3)^{0.45} = 1.83 * 2.06 = 3.77$ lb/VMT = 4.901

Average= 6.10 tpy

For $PM_{2.5}$:

$E_{pm25l} = (0.15 * (15/12)^{0.9}) * (36.5/3)^{0.45} = 0.18 * 3.07 = 0.56$ lb/VMT = 0.728 tpy

$E_{pm25e} = (0.15 * (15/12)^{0.9}) * (15/3)^{0.45} = 0.18 * 2.06 = 0.37$ lb/VMT = 0.481 tpy

Average = 0.60

The emissions in tons per year attributable to the operation of the landfill are shown bellow. We will assume that wetting of the material being placed and the pozzolanic properties of the material will result in a 50% control factor.

Baseline landfill operating emissions by equipment type and unit in tons per year.

	Uncontrolled Emissions			Controlled Emissions at 50% Control		
	TSP	PM_{10}	$PM_{2.5}$	TSP	PM_{10}	$PM_{2.5}$
Dozer	0.76	0.17	0.08	0.38	0.09	0.04
Roller	1.51	0.35	0.16	0.76	0.17	0.08
Grader	4.89	1.40	0.15	2.44	0.70	0.08
Water Truck	19.10	6.10	0.60	9.55	3.05	0.30
Total (TPY)	26.26	8.03	0.99	13.13	4.01	0.50
Total emissions after increase (tpy)				63.05	19.04	2.38
Total emissions after increase (lb/1000 ton)				183.59	55.45	6.92

Appendix A: Emission Calculations
GHG Calcs

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.: 32890 and 32899
Plant ID: 147-00020
Reviewer: Ghassan Shalabi
Date: 03/20/2013

GHG emissions increase is due to reagent used in DSI = 0.5238 lb CO2/lb sodium bicarbonate
Dry Sorbant throughput = 142,500 tpy

GHG emissions increase = 142,500 (t/yr) * 2000 (lb/ton) * 0.5238 (lb CO2/lb of Sodium Bicarbonate)/ 2000 (lb/ton)
= 74641.5 tons CO2/yr

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

September 12, 2013

TO: Spencer County 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 dba AEP (Rockport)
Permit Number: 147-32899-00020

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 6/13/2013

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Thomas W. Easterly
Commissioner

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

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

DATE: September 12, 2013

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

SUBJECT: Final Decision
Significant Permit Modification
147-32899-00020

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:
Plant Manager
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.

Mail Code 61-53

IDEM Staff	GHOTOPP 9/12/2013 Indiana Michigan Power dba AEP- Rockport 147-32899-00020 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: **CERTIFICATE OF MAILING ONLY**

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) via confirmed delviery									
2		Plant Mgr Indiana Michigan Power dba AEP- Rockport 2791 N US Hwy 231 Rockport IN 47635 *(RO CAATS)*									
3		Ms. Francis Lueken 223 W. 10th Street, P.O. Box 206 Ferdinand IN 47532 *(Affected Party)*									
4		Lester Purviance 2687 East CR 600 North Grandview IN 47615 *(Affected Party)*									
5		Richard & Betty Michel 2222 E. County Rd 700 N. Grandview IN 47615 *(Affected Party)*									
6		Mr. Tim Duncan 7499 N. CR 200 E. Grandview IN 47615 *(Affected Party)*									
7		Mr. Ferman Yearby III 313 Elm Rockport IN 47635 *(Affected Party)*									
8		Rockport City Council and Mayors Office P.O. Box 151 Rockport IN 47635 *(Local Official)*									
9		Spencer Co Public Library 210 N Walnut St Rockport IN 47635-1398 *(Library)*									
10		Mr. Don Mottley Save Our Rivers 6222 Yankeetown Hwy Boonville IN 47601 *(Affected Party)*									
11		Ms. Kathy Tretter Dubois-Spencer Counties Publishing Co, Inc P.O. Box 38 Ferdinand IN 47532-0038 *(Affected Party)*									
12		Mr. Mike Robinson 1208 N Meadow Drive Rockport IN 47635 *(Affected Party)*									
13		Mr. Robert Grose 612 4th Street Grandview IN 47615 (Affected Party)									
14		Mr. Steve Sisley 4410 E State Road Grandview IN 47615 *(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 ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** 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	GHOTOPP 9/12/2013 Indiana Michigan Power dba AEP- Rockport 147-32899-00020 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: **CERTIFICATE OF MAILING ONLY**

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. Mark Wilson Evansville Courier & Press P.O. Box 268 Evansville IN 47702-0268 *(Affected Party)*									
3		David Boggs 216 Western Hills Dr Mt Vernon IN 47620 *(Affected Party)*									
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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 ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** 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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