



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
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: May 15, 2013

RE: Jasper Municipal Electric Utility / 037-32039-00002

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, 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 13-15-6-1(b) or IC 13-15-6-1(a) 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.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We 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

Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

Jasper Municipal Electric Utility
1163 E. 15th Street
Jasper, Indiana 47547

(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.

Operating Permit No.: T037-32039-00002	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 15, 2013 Expiration Date: May 15, 2018

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary Coal Fired Electric Utility Plant.

Source Address:	1163 E. 15th Street, Jasper, Indiana 47547
General Source Phone Number:	812-482-3003
SIC Code:	4911
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules 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(14)]

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

- (a) One (1) coal fired spreader stoker boiler used to generate electricity, identified as Boiler #1, with a heat input capacity of 252.5 million British thermal units (MMBTU) per hour, with a 60 MMBTU/hr natural gas fired low NOx burner for start-up, using a multiclone dust collector & electrostatic precipitator (ESP) as control, constructed in 1967 & 1993 respectively, and exhausting to stack #1.
- (b) Facilities associated with the coal and ash handling system:
 - (1) One (1) 0.078 acre outdoor coal storage pile, with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
 - (2) One (1) ash storage silo, with a storage capacity of 300 tons, with a pulsejet baghouse to control ash emissions, constructed in 1993. The method of handling is piping through a fabric filter where hot air is exhausted, with a maximum annual throughput of 7,540 tons per year.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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

- (1) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (2) Coal bunker and coal scale exhausts. [326 IAC 6-3-2]

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).

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) The part 70 Operating Permit, T037-32039-00002, is issued for a fixed term of five (5) years, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7] [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. 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) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (2) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent 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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance 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 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).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than 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 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).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not 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).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Southwest Regional Office no later than 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 and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

- (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

No later than 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 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).

- (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)(8) 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.

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 T037-32039-00002 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

B.15 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 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).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][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 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).

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 reasonable deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
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 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).

(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.18 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 or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

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

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

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) 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)(1) and (c)(1). 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) and (c)(1).

- (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 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).

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

- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 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.22 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 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).

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ 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.24 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 Opacity [326 IAC 5-1]

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

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

C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

C.5 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A. The provisions of 326 IAC 6-5 are not federally enforceable.

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

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
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 that meets the requirements of 326 IAC 2-7-6(1) by a "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) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require 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).

- (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 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).
- (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)][40 CFR 64][326 IAC 3-8]

- (a) Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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 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).

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.

- (b) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (c) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.11 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.12 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 maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(11)] [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.14 Response to Excursions or Exceedances [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5]
[326 IAC 2-7-6]

- (I) Upon detecting an excursion where a response step is required by the D Section, or an exceedance of a limitation, not subject to CAM, in this permit:
 - (a) The Permittee shall take reasonable response steps to 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 excess emissions.
 - (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
 - (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 necessarily 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 record the reasonable response steps taken.
- (II)
 - (a) *CAM Response to excursions or exceedances.*
 - (1) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the 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. 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). Such actions may include initial inspection and evaluation, recording that operations returned to normal

without operator action (such as through response by a computerized distribution control system), or 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.

- (2) 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, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
 - (c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a QIP. The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.
 - (d) Elements of a QIP:
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).
 - (e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
 - (f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:
 - (1) Failed to address the cause of the control device performance problems;
or
 - (2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
 - (g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.
 - (h) *CAM recordkeeping requirements.*

- (1) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to paragraph (II)(a)(2) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.
- (2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements

C.15 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 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).

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

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit no later than 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:

- (a) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (b) 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 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).

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

(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. Support information includes the following:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

(c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(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 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), 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.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]
[40 CFR 64][326 IAC 3-8]

-
- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include 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). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:
- 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) 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.
- (e) 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 (oo) and/or 326 IAC 2-3-1 (jj)) 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 (ww) and/or 326 IAC 2-3-1 (pp), 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).
- (f) The report for project at an existing emissions unit shall be submitted no later than 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 wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

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

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

Stratospheric Ozone Protection

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

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 applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Coal Fired Spreader Stoker Boiler

One (1) coal fired spreader stoker boiler used to generate electricity, identified as Boiler #1, with a heat input capacity of 252.5 million British thermal units (MMBTU) per hour, with a 60 MMBTU/hr natural gas fired low NO_x burner for start-up, using a multiclone dust collector & electrostatic precipitator (ESP) as control, constructed in 1967 & 1993 respectively, and exhausting to stack #1.

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

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

D.1.1 Particulate Matter Limitations: Dubois County [326 IAC 6.5-4-18]

Pursuant to 326 IAC 6.5-4-18 (Particulate Matter Limitations: Dubois County), particulate matter (PM) from Boiler #1 shall in no case exceed 0.35 lb/mmBtu heat input and 265.6 tons per year.

D.1.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

(a) Pursuant to 326 IAC 5-1-3 (e) (Temporary Alternative Opacity Limitations), the following applies to Boiler #1:

- (1) When building a new fire in a boiler, opacity may exceed the 30% opacity limitation for a period not to exceed thirty six (36) minutes (six (6)-minute averaging periods), with opacity not to exceed eighty (80) percent.
- (2) When shutting down a boiler, opacity may not exceed sixty (60) percent 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 hour period.
- (3) Operation of the electrostatic precipitator is not required during these times unless necessary to comply with these limits.

(b) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging period in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period.

D.1.3 Sulfur Dioxide Emissions Limitation [326 IAC 7-1.1][326 IAC 7-2-1(d)(2)]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emissions Limitation), the SO₂ emissions from Boiler #1 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu) when combusting coal. Compliance shall be determined using a calendar month average sulfur dioxide emission rate in pound per MMBtu.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plan required by this condition.

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

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to determine compliance with Condition D.1.1, the Permittee shall perform PM testing for coal fired spread stoker boiler #, exhausting to stack #1, utilizing methods as approved by the Commissioner. This test shall be repeated by December 31 of every second calendar year following the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

D.1.6 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 for Boiler #1 shall be operated at all times that the boiler vented to the ESP is in operation.

D.1.7 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-2][326 IAC 7-1.1-2]

(a) Pursuant to 326 IAC 7-2-1, the Permittee shall demonstrate that the sulfur dioxide emissions from Boiler #1 do not exceed the equivalent of 6.0 pounds per mmBtu demonstrated using a calendar month average. Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:

- (1) Pursuant to 326 IAC 3-7-2(b)(1), the Permittee shall comply with the requirements specified in 326 IAC 3-7-2(a); or
- (2) Pursuant to 326 IAC 3-7-2(b)(2) and 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring; or
- (3) Pursuant to 326 IAC 3-7-2(b)(3), the Permittee shall meet the following minimum requirements:
 - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system.
 - (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered or burned during the preceding eight (8) hour period.
 - (C) Minimum sample size shall be five hundred (500) grams.
 - (D) Samples shall be composited and analyzed at the end of each calendar month.

For options (a)(1) and (a)(3) of this condition, the coal samples shall be prepared as specified in 326 IAC 3-7-2(c), the heat content of the coal samples shall be determined as specified in 326 IAC 3-7-2(d), and the sulfur content of the coal samples shall be determined pursuant to 3-7-2(e).

- (b) Compliance with the emission limitations contained in 326 IAC 7 may be determined by conducting a stack test for sulfur dioxide emissions from the boiler in accordance with 326 IAC 3-6, utilizing the procedures in 40 CFR 60, Appendix A, Method 6, 6A, 6C, or 8. [326 IAC 7-2-1(d)]

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method. [326 IAC 7-2-1(f)]

- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. 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 2-7-5(1)][326 IAC 2-7-6(1)]

D.1.8 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)][40 CFR 64]

- (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 transformer rectifier (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.1.9 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) In the event of opacity for Boiler #1 exceeding fifteen percent (15%) average opacity for three (3) consecutive six (6) minute averaging periods, appropriate response steps shall be taken such that the causes of the excursion are identified and corrected and opacity levels are brought back below fifteen percent (15%) for Boiler #1. Examples of expected corrective actions include, but are not limited to, boiler load being reduced and ESP T-R sets being returned to service.
- (b) Opacity readings in excess of fifteen percent (15%) for Boiler #1 but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.10 Record Keeping Requirements [40 CFR 64]

- (a) In order to document the compliance status with Conditions D.1.3 and D.1.7, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be sufficient to demonstrate compliance using a calendar month average and shall be complete and sufficient to establish compliance with the SO₂ limit established in Condition D.1.3.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual coal usage since the last compliance determination period;
 - (3) Sulfur content and heat content; and

- (4) Sulfur dioxide emission rates.
- (b) 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.
- (c) In order to document the compliance status with Section C - Opacity and Conditions D.1.1, D.1.2, D.1.4, D.1.5, D.1.8, D.1.9, D.1.10, and D.1.11, the Permittee shall maintain records in accordance with (1) through (5) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C – Opacity and in Conditions D.1.1 and D.1.2.
 - (1) Data and results from the most recent stack test;
 - (2) All continuous emissions monitoring data, pursuant to 326 IAC 3-5;
 - (3) All parametric monitoring readings;
 - (4) Records of the results of the ESP inspections; and
 - (5) All preventive maintenance measures taken.
- (d) Section C - General Record Keeping Requirements, contains the Permittee's obligation with regard to the recordkeeping required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Coal and Ash Handling Systems

Facilities associated with the coal and ash handling systems:

- (1) One (1) 0.078 acre outdoor coal storage pile, with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
- (2) One (1) ash storage silo, with a storage capacity of 300 tons, with a pulsejet baghouse to control ash emissions, constructed in 1993. The method of handling is piping through a fabric filter where hot air is exhausted, with a maximum annual throughput of 7,540 tons per year.

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

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

D.2.1 Particulate Matter Limitations: Dubois County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, the coal and ash handling units shall not allow or permit discharge into the atmosphere of any gases which contain particulate matter in excess of 0.03 grain per dry standard cubic foot (dscf).

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

Coal bunker and coal scale exhausts.

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

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

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

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable particulate emission rate from the coal bunker and coal scale exhausts shall not exceed the allowable PM emission rate based on the following:

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

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

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Jasper Municipal Electric Utility
Source Address: 1163 E. 15th Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-32039-00002

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE 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: Jasper Municipal Electric Utility
Source Address: 1163 E. 15th Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-32039-00002

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), no later than 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 no later than 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: _____

**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: Jasper Municipal Electric Utility
 Source Address: 1163 E. 15th Street, Jasper, Indiana 47547
 Part 70 Permit No.: T037-32039-00002

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

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, 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".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Description and Location

Source Name:	Jasper Municipal Electric Utility
Source Location:	1163 E. 15 th Street, Jasper, Indiana 47547
County:	Dubois
SIC Code:	4911
Operation Permit Renewal No.:	T 037-32039-00002
Permit Reviewer:	Muhammad D. Khan

Public Notice Information

On August 21, 2012, the Office of Air Quality (OAQ) had a notice published in the Herald, Jasper, Indiana, stating that Jasper Municipal Electric Utility had applied for a Part 70 Operating Permit Renewal to operate a stationary electric utility generating station. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments Received from Public and IDEM's Responses

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

The people who commented during the public notice period are Pat Uebelhor, Gina Herman, Jerry Uebelhor, Megan Anderson, Michael Hicks, Jeanne Melchior, Larry Schnell, Kelly Flamion, Rock Emmert, Bowden Quinn, Kristina Dalton, Norma Kreilein, Cara Beth Jones, Jesse Kharbanda, and Alec Kalla.

IDEM has summarized and consolidated comments received during the public notice period. Comments dealing with a similar issue were grouped and IDEM provided a response on the issue in question.

Comment #1: The plant is located in a residential neighborhood adjacent to the Patoka River and it seems a shame to consider this facility again being in operation considering that the plant building no longer meets the required standard for operation and it should need to recertify its location. PM emission limit in the permit is too large and is not safe. There was a fire last August, is not mention in the permit and the plant is going to burn miscanthus is also not mention in the permit.

Response #1: The source has no pending enforcement actions and is able to operate pursuant to the air pollution control rules found in Title 326 of the Indiana Administrative Code and under the requirements of this permit.

The source's Particulate Matter (PM) emission limits in the permit are the most stringent

limits that apply to this source. The federal Clean Air Act requires the U.S. EPA to set National Ambient Air Quality Standards (NAAQS) for six criteria pollutants, including fine particulate matter, PM₁₀, and very fine particulate matter, PM_{2.5}. These standards are set at levels that protect human health, including the health of sensitive persons, such as asthmatics, children and the elderly. The NAAQS are often referred to as the federal health standards for outdoor air. Dubois County is in attainment or unclassifiable for all the National Ambient Air Quality Standards.

More information about these pollutants is available at www.epa.gov/air/airpollutants.html on U.S. EPA's website. The complete table of the NAAQS can be found at the www.epa.gov/air/criteria.html website. Detailed information about the health effects of these common pollutants is available at www.epa.gov/air/urbanair/. IDEM conducts sampling of the ambient air at monitoring stations around Indiana. This air monitoring is conducted to measure whether the NAAQS are being met. Information about Indiana's air monitoring system and monitoring results is available at www.idem.IN.gov/4116.htm. Information about current and expected air pollution levels throughout Indiana is on IDEM's SmogWatch site at www.smogwatch.IN.gov on the internet.

Past violations or occurrences at a source do not prevent the source from receiving a renewal permit as long as it is in compliance at the time of permit issuance. The source is not permitted to use miscanthus grass as a fuel under the terms of this permit. If the source seeks to change its fuel in the future, it must apply to IDEM for a modification of its air permit.

Comment #2: Test results of tests dated 9-15-93 list those of 3 runs and run # 2 exceed the emissions limits. During the stack test, a black smoke plume was noticed. What is this from? The results for this test show the boiler was operated at 252.5MMBtu/hr, well above its rating of 193MMBtu/hr.

Response #2: EPA approved Method 5 requires three runs to be performed for Particulate Matter stack testing and an average of these 3 runs is taken. If the average of the three runs is less than the limit established in the permit, the boiler is considered to be in compliance with the limit. The average of the three (3) runs done on September 15, 1993 is 0.035 lb/MMBtu which is 1/10th of the allowable limit of 0.35 lb/MMBtu.

IDEM, OAQ does not know why smoke was visible during the 1993 test but whatever the reason was, the source did pass the emissions test.

The boiler rating is descriptive information and does not constitute an enforceable condition. The boiler rating is revised from 192 MMBtu/hr to 252.5 MMBtu/hr. The boiler was constructed in 1967 and the source was a major source for PSD in August 1977, the date when Clean Air Act became effective. No other applicable requirements are involved in making this change as the boiler has not been modified since it was constructed. This is only a descriptive change to the emission unit.

The PTE of the source is modified as follows:

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM ₁₀ *	PM _{2.5} **	SO ₂	NO _x	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Spreader Stroker Boiler #1	265.6	285.2 375.1	285.2 375.1	5,046 6636	402.20 528.93	2.56 3.37	182.8 240.4	176370 231945	45.50 59.7	43.9 57.7 Hydrogen Chloride
Coal Handling Unit	0.015	0.002	0.013	--	--	--	--	--	--	--
Ash Handling Unit	0.13	0.06	0.01	--	--	--	--	--	--	--
Insignificant Activities	0.91	1.11	1.11	--	4.30	0.20	3.60	5166	0.08	0.077 Hexane
Total PTE of Entire Source	266.66	286.3 376.3	286.33 376.3	5046.16 6636	406.5 533.23	4.21 3.60	186.4 244.0	181536 237108	45.48 59.88	43.9 57.7 Hydrogen Chloride
Title V Major Source Thresholds	--	100	100	100	100	100	100	100,000 CO ₂ e	25	10
PSD Major Source Thresholds	100	100	--	100	100	100	100	100,000 CO ₂ e	NA	NA

*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

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

Section A.2 (a) of the permit is modified as follows:

A.2 Emission Units and Pollution Control Equipment Summary
 [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

- (a) One (1) coal fired spreader stoker boiler used to generate electricity, identified as Boiler #1, with a heat input capacity of ~~492~~ **252.5** million British thermal units (MMBTU) per hour, with a 60 MMBTU/hr natural gas fired low NO_x burner for start-up, using a multiclone dust collector & electrostatic precipitator (ESP) as control, constructed in 1967 & 1993 respectively, and exhausting to stack #1.

Section D.1 of the permit is modified as follows:

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Coal Fired Spreader Stoker Boiler

One (1) coal fired spreader stoker boiler used to generate electricity, identified as Boiler #1, with a heat input capacity of ~~492~~ **252.5** million British thermal units (MMBTU) per hour, with a 60 MMBTU/hr natural gas fired low NO_x burner for start-up, using a multiclone dust collector & electrostatic precipitator (ESP) as control, constructed in 1967 & 1993 respectively, and exhausting to stack #1.

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

Comment #3: Opacity monitoring is not a valid method of monitoring particulate matter emissions and stack test results supplied by the applicant, dated 10-29-91 show results for 3 runs. Because lower opacity of Run #1 versus Run #2 is associated with a greater quantity of emissions and the 10-29-91 PM test results list the loading on the boiler as 9.4MW, well below the system rating of approx. 14.5 MW. The EPA states, "Boiler load also affects the PM emissions as decreasing load tends to reduce PM emissions." (Quoted from: EPA's AP-42, section 1.1.3.1)

Response #3: The opacity rule, 326 IAC 5-3, sets out the opacity limits that apply to this source. These limits are included in the permit. Opacity is an indication of boiler being operated properly and also gives an indication of particulate matter emissions. The test dated 10-29-91 indicates 5.3% opacity for run #1, 6.9% opacity for run #2, 17.5% opacity for run #3 and an average opacity of 9.9% which is below the opacity limit of 30%. The most recent stack test result performed on June 9, 2009 shows average opacity of 6.1% and average operating capacity of 14.59 MW which is around the maximum operating rate of 15.00 MW.

Comment #4: Start up and shut down emissions are not accounted for in this permit or in the application for it. Sierra Club v EPA, which was heard in the U.S. Court of Appeals, District of Columbia, No 02-1135, requires start up and shut down emissions to be included in source emissions quantities. The ESP is not required, as per D.1.2, to be operative at all times during start up and shut down. Because of this, D.1.2 and D.1.6, and page 7 of 9 of the TSD are contradictory.

Response #4: The source uses a natural gas fired low NOX burner for startup purposes which has very low emissions as compared to coal. During shut down the emissions gradually become zero. Emissions calculated by IDEM are based on 8760 hours of operation. The calculated emissions in the TSD are greater than the emissions would be if taking in to account the lower startup emissions from natural gas fired low NOX burner and the lower emissions at shutdown. The emissions calculated by IDEM are more conservative.

Condition D.1.6 states that "Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator for Boiler #1 shall be operated at all times that the boiler vented to the ESP is in operation" and as per condition D.1.2(a)(3) the ESP was not required to be operative during start up and shut down if the boiler meets the temporary alternative opacity requirements. During startup the temperature of emission gases are lower and the ESP does not work at this lower temperature. During shut down, the emissions will be less as the boiler is operating on a decreased load, therefore the ESP is not required to operate during shut down.

Comment #5: Source claims the control efficiency of 99% or more of the particulate matter and calculating from information on page 106 of 175 of the application papers, ash handling, alone, has a PTE of 73 tons/yr of particulate matter.

Response #5: Using AP-42 emission factors and the information provided on page 106 of 175 of the application the particulate matter emission from ash handling is 0.13 tons per year based on the maximum annual throughput of 7,840 tons of ash (see calculation on page 8 of 11 TSD Appendix A). Emissions from ash handling are limited by 326 IAC 6.5-1-2 to 3.4 tons per year to prevent a violation of the particulate matter NAAQS, the health based standard established by the U.S. EPA.

Comment #6: Boiler #1 is not subject to 326 IAC 2-4.1 since it was constructed before the applicability date of July 27, 1997 and has not been modified since it was constructed in 1967 but the ESP was installed after 1967 and this is a modification.

Response #6: The Electrostatic Precipitator (ESP) is a control device which reduces emissions. This change did not increase the boiler's potential to emit, instead it decreased particulate matter emissions from the boiler. The installation of ESP does not meet the definition of modification in 326 IAC 1-2-42 and is not considered modification to the boiler.

Comment #7: The Black & Veatch study, Jasper Municipal Electric Utility Plant Condition, the efficiency of the boiler has been lessened because of wear of the grate which hinders proper airflow and because several tubes have failed requiring installation of plugs in the headers and because the generating bank has buildup. These changes fit the Black's Law Dictionary, Fifth Ed. definition of modification not repair. They fit the section 7412 definition of modification.

Response #7: These are considered as normal routine maintenance activities. These activities are not considered as modification to the boiler, as defined in 326 IAC 1-2-42.

Comment #8: The emissions limitations for individual HAP, 10 ton per year, are not protective of human health. Ten tons of mercury, ten tons of dioxins, ten tons of furans, ten tons of cadmium, and of other HAPs are not quantity limits which are protective of human health. Ten tons of these are a danger to human health. Because the draft permit does not comply with 326 IAC 2 requirements to set limits protective of human health, this permit should not be issued nor should it be renewed.

Response #8: Ten tons per year of a single Hazardous Air Pollutant (HAP) is not a limit; it is the threshold at which the HAP emissions alone reach the Title V permitting levels under 326 IAC 2-7. As set out in the Summary of Uncontrolled PTE HAPs table on page 2 of Appendix A in the Technical Support Document, mercury emissions are less than 3.99E-03 tons per year (tpy), which is .000399 tpy or 7.98 pounds per year. Dioxin and furan emissions are below .00000001 tons per year. Cadmium emissions are .00245 tons per year. If the source were to operate 24 hours a day, 365 days per year, it would emit a total of 59.79 tons of HAPs (see revised calculation on page 3 of this ATSD). Since the source must have periods of startup and shutdown, actual HAP emissions will be less. Most of the calculated HAP emissions are for hydrogen chloride at 57.7 tons per year. There are no state or federal applicable requirements that would lower the level of HAP emissions.

Comment #9: Why does this permit not contain a map showing air dispersion? Why IDEM required maps in other permit applications and not this one?

Response #9: IDEM, OAQ has no authority to require air dispersion modeling as the source is not undergoing a major modification.

Comment #10: The reasoning behind the mercury limits in the proposed permit, given HEC's historic emphasis on curtailing mercury pollution in Indiana, and our awareness of Indiana-based research which indicates that mercury deposition can cause more local impact than previously understood.

Response #10: The emissions of mercury, based on the AP-42 emission factor, are calculated to be 0.00303 tons per year. There are no mercury limits in the permit because there are no applicable regulatory requirements to reduce the mercury emissions any lower.

Comment #11: Testing of compliance of PM emissions limits is required to occur only every five years as mention in D.1.5 of the draft permit.

Response #11: This is consistent with the IDEM requirements for this size boiler and this five year period for testing shows reasonable compliance with the emission limits.

Comment #12: Emissions information in the application is based upon AP-42 emissions factors. These factors are not accurate for estimations or calculations of emissions from specific sources.

Response #12: The U.S. EPA issues the AP-42 emission factors based on testing done around the county. These are the best emission factors available for calculating emissions from the coal fired boiler.

Comment #13: According to Permit items D.1.3 & D.1.7, SO₂ emissions are to be averaged over a calendar month. The method of determination, CEM lacking in this source and sampling of coal required to be done once per month which could not restrain the emissions to a level protective of health. SO₂ emission factor should be 59.94 lb/ton, not the 57 listed.

Response #13: For coal fired boilers with heat input capacity of less than 1,500 MMBtu/hr, 326 IAC 7-2-1(d)(2) states that compliance shall be determined using calendar month average SO₂ emissions. Analysis of coal sampling does give a reasonable assurance of compliance with the SO₂ limit of 6 lb/MMBtu. The county is in attainment for SO₂ National Ambient Air Quality Standard and the SO₂ emission limit of 6 lb/MMBtu is adequate to protect human health. SO₂ emissions from the boiler have never exceeded 6 lb/MMBtu.

The SO₂ emissions are based on the AP-42 emission factor from table 1.1-3. The emission factor from AP 42 table 1.1-3 for the coal fired boiler is 38S, where S is weight % sulfur content of coal as fired. The most recent annual emission statement for 2011 shows sulfur content in coal fired as 1.5%. Multiplying 1.5 by 38 gives the emission factor of 57 lbs/ton, as mention in Appendix A of the TSD.

Comment #14: Source is incapable of complying with this permit and so the permit should be denied. Section D.1.5 requires PM testing be performed with and without duct burners operating. According to the Process Flow Diagram of the source supplied in the application for this draft permit, there are no duct burners extant.

Response #14: According to most recent stack test dated 06/09/2012, the source is complying with the permit emission limits. The typographical error in the testing requirement in condition D.1.5 is revised as follows:

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to determine compliance with Condition D.1.1, the Permittee shall perform PM testing for coal fired spread stoker boiler #, exhausting to stack #1, utilizing methods as approved by the Commissioner. ~~Testing shall be conducted with and without the duct burners in operation.~~ This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

Comment #15: Page 7 of papers in the application, being page 129 of 175 of the PDF of the application, notwithstanding, pages 3 and 5 of 9 of the TSD list PM, PM10 and PM2.5 emissions quantities both before and after issuance, i.e., uncontrolled and controlled. The capture rate (percentage of emissions captured) PM is less than 42%; for PM 10 the rate is less than 0.42 %; and for PM2.5 it is less than 0.4%. The application, page 6 of the Plant Emissions Inventory, *SEGMENT INFORMATION* this being page 91 of 175 pages of the PDF of the application, lists the control efficiency of the multiple cyclone w/o ash reinjection to be 30% and the capture efficiency of the ESP to be 63%. These figures contradict those on pages 3 and 5 of 9 of the TSD as above.

Response #15: Potential emissions are defined in 326 IAC 1-2-55 as the emission of any pollutant which would be emitted from a facility if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product. Page 3 of 9 of the TSD lists potential emissions from the entire source without any control of PM, PM₁₀, PM_{2.5} as 439.82, 286.38 and 286.32 tons per year respectively. Page 5 of 9 of the TSD lists the Potential to Emit of the entire source after the issuance of the permit in which PM emissions from the coal fired boilers are limited by 326 IAC 6.5-4-18 to 265.6 tons per year. In order to comply with the PM emissions limit, considering the 63% control efficiency of ESP, the source can easily comply with the PM emission limit of 0.35 lb/MMBtu.

Comment #16: Page 4 of 11 of TSD Appendix A, displays emissions factors and PTEs for some metal HAPs and cites AP-42 Tables 1.1-1 thru 18 as sources. Table 1.1-12 displays emissions information for dioxins and furans, which groups, erroneously, appear nowhere in this source's permit, draft permit, and related papers and the state/local emission factor for mercury used in the Facility Emissions Detail report for 2011, received by IDEM 3 July 2012 along with Jasper's Part 70 Operating Permit Certification, is cited with no reference to identify the factor and its basis. Footnote (a) to AP-42 Table 1.1-18 would exclude that table from applying to this source. Table 1.1-17 has no data for spreader stokers such as is this source and further page 122 of the application list mercury in the amount of approx. 14 pounds per year.

Response #16: The emission factor for mercury was taken from AP-42 table 1.1-18 which can be used for coal fired boilers utilizing an Electrostatic Precipitator (ESP) as a control. AP-42 table 1.1-18 is for boilers firing coal irrespective of the type of boiler. Table 1.1-12 mentions dioxins and furans having emission factor in exponent power negative nine (10^{-9}) which is insignificant. The annual emission statement for 2011 contains an emission factor for mercury of 0.00360 lb/ton, which is more conservative than AP-42 emission factor of 0.000083 lb/ton.

Comment #17: Page 118 of 175 of the PDF of the application shows an x on the line before radionuclide, indicating their release as emissions, yet the page lists no data for the quantity of these. There is no knowledge, then, of how much radioactive material has been and will be released from this source.

Response #17: Radionuclides are not regulated by Indiana's air pollution control rules.

Comment #18: Page 7 of 9 of the TSD states, "326 IAC 6.5-4-18 (Particulate Matter Limitations: Dubois County) Pursuant to 326 IAC 6.5-4-18 (Particulate Matter Limitations: Dubois County), particulate matter from Boiler #1 shall in no case exceed 0.350 lb/MMBtu heat input and 265.6 tons/year." The first number, multiplied by the hours in a year and the 192 MMBtu rated heat input capacity of the boiler yields a product which is more than the second number.

Response #18: Both of the limits, 0.35 lb/MMBtu and 265.6 tons per year, are from 326 IAC 6.5-4-18 and apply independently. The boiler at all times must meet 0.35 lbs/MMBtu limit and on a yearly basis must not emit more than 265.6 tons. If the boiler always emits at the rate of 0.35 lb/MMBtu the boiler will need to operate less than 8760 hours per year in order to meet 265.6 ton per year limit. Due to required periods of startup and shut down, the boiler will never operate continuously.

Comment #19: The chemical makeup of the coal varies over time, emissions will also vary and page 6 of 11 TSD Appendix A lists ash and sulfur content which does not agree with those in the application papers nor in the First Quarter 2009 report of coal analyses. IDEM reports that First Quarter report shows two months data; ash was 7% and sulfur varied by 226% and was as much as 16.7% above that listed in the TSD Appendix A. The application

papers, also, show analyses of coal give further varied results, page 126 of 175 of the PDF of the application listing ash at 17.46%.

Response #19: The sulfur and ash content provided by the source in the application page 49 of 175 are 1.5% and 10.5% respectively. The source's 2009 annual emission statement shows the sulfur and ash contents are 0.79%, 7.10% (January) and 1.75%, 6.72% (February) respectively. The SO₂ emission for January was 1.32 lb/MMBtu and 2.76 lb/MMBtu for February which is well below the allowable limit of 6 lb/MMBtu.

Comment #20: The greenhouse gas computations are based upon the same lower heat input and upon AP-42 factors and so will be inaccurate. The methodology of determining the GHG CO₂e is inadequately documented; no CO₂e factor is listed for N₂O, and the 305.2 that the listed data engenders is at best a low value.

Response #20: The greenhouse gas emissions are calculated based on 192 MMBtu/hr of heat input as provided by the source in the application and the AP-42 emission factor, which is the standard method of determining the greenhouse gas emissions. The emission factor of 0.04 lbs/ton is used for N₂O, which is multiplied by the potential throughput in tons/year and divided by 2000 lbs/ton. This result is then multiplied by the equivalency factor of 310 to get CO₂e in tons per year. There is no value of 305.2 used in the calculation. The total greenhouse gas emission in terms of CO₂e is 181,536 tons per year. Since the source is not undergoing any modification there are no greenhouse gas requirements or limits included in the permit.

Comment #21: The draft permit cites a piece of Indiana Administrative Code which is defective because it is incomplete. The draft permit, sections B.10 and D.2.2, ostensibly addressing a preventative maintenance plan, refer to 326 IAC 2-7-5 (13) which consists of Section 15 or 20 of this rule and section 20 of this rule does not appear to exist.

Response #21: Conditions B.10 cites to 326 Indiana Administrative Code 2-7-5(12), which requires that each Title V operating permit contain a provision requiring the source to maintain on-site a preventive maintenance plan and to implement that plan. The current text of the Indiana Administrative Code can be found at <http://www.in.gov/legislative/iac/title326.html> on the Internet. Condition D.2.2 does contain a typographical error as it cites to 2-7-5(13) when it should cite to 2-7-5(12). This typographical error in the citation in condition D.2.2 is revised as follows:

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plan required by this condition.

Comment #22: This draft permit does not state a requirement that the source keep its emissions units operating under optimal performance which is unequal treatment under law. IDEM operating permit T117-17217-00010, in Condition D.1.1, requires that the source keep the emission units operating under optimal performance and in fact, D.1.1 does not state that requirement, IDEM claims in the response that this source must maintain its equipment operating under optimal performance but not the same for Jasper Municipal Electric Utility which is unequal treatment under law.

Response #22: Condition D.1.1 Preventive Maintenance Plan of IDEM permit T117-17217-00010 for Texas Eastern Transmission, LP contains the same requirements as the Preventive Maintenance Plan in condition D.1.4 of this permit. On June 18, 2007, during a public hearing the Texas Eastern Transmission permit, Mr. Alec Kalla asked whether the Texas Eastern Transmission's machinery was always operating optimally. As part of IDEM's

response in the Addendum to the Technical Support Document for permit T117-17217-00010, IDEM stated that the Preventive Maintenance Plan would require that the source keep the emission units operating under optimal performance. IDEM went on to explain that the Preventive Maintenance Plan includes:

- (1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),
- (2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and
- (3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

IDEM concluded the response by stating that no changes had been made to the Texas Eastern Transmission permit as a result of Mr. Kalla's question.

IDEM's explanation of the goal of the Preventive Maintenance Plan in the Addendum to the Technical Support Document to the Texas Eastern Transmission permit did not create any additional permit requirements for Texas Eastern Transmission or alter the rule language regarding Preventive Maintenance Plans. IDEM applies the same Preventive Maintenance requirements in the respective conditions for both Texas Eastern Transmission and this source.

Comment #23: Has any money or funding received from the federal government been used or involved in the preparation, processing, or administration of this draft permit?

Response #23: IDEM, OAQ's Title V permitting actions are paid completely out of fees collected from Title V sources.

Other Changes

Upon further review IDEM, OAQ has made the following changes to the Title V permit T037-32039-00002. (deleted language appears as ~~strikeout~~ and the new language **bolded**):

Change 1: Condition D.1.5 of the Permit is modified as follows:

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to determine compliance with Condition D.1.1, the Permittee shall perform PM testing for coal fired spread stoker boiler #1, exhausting to stack #1, utilizing methods as approved by the Commissioner. This test shall be repeated ~~at least once every five (5) years from the date of this~~ **by December 31 of every second calendar year following the most recent** valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

IDEM Contact

Questions regarding this proposed permit can be directed to:

Muhammad D. Khan
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 3-9664
Or dial directly: (317) 233-9664
MKhan1@idem.in.gov

Please refer to Permit Renewal No. 037-32039-00002 in all correspondence.

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

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Jasper Municipal Electric Utility
Source Location:	1163 E. 15 th Street, Jasper, Indiana 47547
County:	Dubois
SIC Code:	4911
Permit Renewal No.:	T 037-32039-00002
Permit Reviewer:	Muhammad D. Khan

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Jasper Municipal Electric Utility relating to the operation of a stationary electric utility generation station.

History

On June 21, 2012 Jasper Municipal Electric Utility Company submitted an application to the OAQ requesting to renew its operating permit. Jasper Municipal Electric Utility was issued a Part 70 Operating Permit Renewal T 037-22741-00002 on October 3, 2008.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) coal fired spread stoker boiler used to generate electricity, identified as Boiler #1, with a maximum heat input capacity of 192 MMBTU/hr, with a 60 MMBTU/hr natural gas fired low NO_x burner for start-up, using multiclone and electrostatic precipitator (ESP) as control, constructed on 1967, and exhausting to stack #1.
- (b) Facilities associated with the coal and ash handling system:
 - (1) One (1) 0.078 acre outdoor coal storage pile, with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
 - (2) One (1) ash storage silo, with a storage capacity of 300 tons, with a pulsejet baghouse to control ash emissions, constructed in 1993. The method of handling is piping through a fabric filter where hot air is exhausted, with a maximum annual throughput of 7,540 tons per year.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

The source does not consist of any emission units that were constructed and/or are operating without a permit.

Emission Units and Pollution Control Equipment Removed From the Source

The source has not removed any emission unit.

Insignificant Activities

The source also consists of the following insignificant activities:

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour. [326 IAC 2-7-1(21)(G)(i)(AA)(aa)]
- (2) Combustion source flame safety purging on startup. [326 IAC 2-7-1(21)(G)(i)(CC)]
- (3) Closed loop heating and cooling systems. [326 IAC 2-7-1(21)(G)(vi)(FF)]
- (4) Forced and induced draft cooling tower system not regulated under a NESHAP. [326 IAC 2-7-1(21)(G)(ix)(FF)(bb)]
- (5) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment. [326 IAC 2-7-1(21)(G)(x)(AA)]
- (6) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (7) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6-3-2]
- (8) Blowdown for any of the following: sight glass: boiler: compressors: pumps: and cooling tower. [326 IAC 2-7-1(21)(G)(xx)]

Existing Approvals

Since the issuance of the first renewal of Part 70 Operating Permit 037-22741-00002 on October 3, 2008, the source has given no additional approval.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Air Pollution Control Justification as an Integral Part of the Process

IDEM, OAQ has evaluated the justifications and determined that the Electrostatic Precipitator will not be considered as an integral part of the Coal fired Spreader stroke Boiler and Turbine Generator. Therefore, the permitting level will be determined using the potential to emit before the Electrostatic Precipitator. This determination was similar to the initial determination made under Part 70 Operating Permit No. 037-22741-00002, issued on October 3, 2008.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Dubois 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 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 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. Dubois 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}

Dubois County has been classified as nonattainment for PM_{2.5} in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for PM_{2.5} emissions. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Dubois 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.

(c) Since this source is classified as stationary source with fossil fuel boilers (or combination thereof) totaling more than two hundred fifty million (250,000,000) British thermal units per hour heat input, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

Fugitive Emissions

Since this source is classified as a stationary source with fossil fuel boiles (or combination thereof) totaling more than two hundred fifty milion (250,000,000) British thermal units per hour input, 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.

Unrestricted Potential Emissions

This table reflect the unrestricted potential emissions of the source.

Pollutant	Tons/year
PM	439.82
PM ₁₀	286.38
PM _{2.5}	286.32
SO ₂	2,084.28
VOC	2.76
CO	186.42
NO _x	406.5
GHGs as CO ₂ e	181536

HAPs	tons/year
Single HAP	43.9 (Hydrogen chloride)
Total HAP	45.48

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

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM, PM_{2.5}, PM₁₀, SO₂, CO, NO_x is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is equal to or greater than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any new control equipment is considered federally enforceable only after issuance of this Part 70 permit renewal, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM ₁₀ *	PM _{2.5} **	SO ₂	NO _x	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Spreader Stroker Boiler #1	265.6	285.2	285.2	5,046	402.20	2.56	182.8	176370	45.50	43.9 Hydrogen Chloride
Coal Handling Unit	0.015	0.002	0.013	--	--	--	--	--	--	--
Ash Handling Unit	0.13	0.06	0.01	--	--	--	--	--	--	--
Insignificant Activities	0.91	1.11	1.11	--	4.30	0.20	3.60	5166	0.08	0.077 Hexane
Total PTE of Entire Source	266.66	286.3	286.33	5046.16	406.5	4.21	186.4	181536	45.48	43.9 Hydrogen Chloride
Title V Major Source Thresholds	--	100	100	100	100	100	100	100,000 CO ₂ e	25	10
PSD Major Source Thresholds	100	100	--	100	100	100	100	100,000 CO ₂ e	NA	NA

*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀), not particulate matter (PM), is considered as a "regulated air pollutant".
 **PM_{2.5} listed is direct PM_{2.5}.

- (a) This existing stationary source is major for PSD because the emissions of at least one criteria pollutant are greater than one hundred (>100) tons per year, emissions of GHGs are equal to or greater than one hundred thousand (>100,000) tons of CO₂ equivalent emissions (CO₂e) per year, and it is in one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is major for Nonattainment NSR because the emissions of the nonattainment pollutants, PM_{2.5} and SO₂, are greater than one hundred (>100) tons per year.
- (c) Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Boiler #1 PM	Y	Y	>100	>100	100	Y	N
Boiler #1 PM 2.5	Y	N	>100	>100	100	N	N
Boiler #1 PM10	Y	N	>100	>100	100	N	N
Ash Handling PM	Y	Y	<100	<100	100	N	N
Ash Handling PM	Y	Y	<100	<100	100	N	N
Ash Handling (PM10)	Y	Y	<100	<100	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable for PM to Boiler #1. A CAM plan has been submitted and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
 - (1) Boiler #1 is not subject to the requirements of the New Source Performance Standards, 326 IAC 12, (40 CFR 60, Subparts D, Da, Db, or Dc), because the boiler was constructed before August 17, 1971.
 - (2) The Standards of Performance for nonmetallic Mineral Plants, 40 CFR Part 60, Subpart OOO do not apply because the Source does not use nonmetallic minerals.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

For Title IV

This source is not an affected source subject to the Title IV (Acid Rain Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3), because capacity of the generators is less than 25 MWe, and is therefore exempt under 40 CFR 72.6(b)(2).

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements)
 Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) this source is a major source. This source has not gone through Prevention of Significant Deterioration (PSD) review because the original equipment was constructed in 1967 prior to 326 IAC 2-2 being promulgated, and the source has not been modified since 326 IAC 2-2 was promulgated. The source is one of the twenty-eight (28) listed source categories.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted annually by July 1 and every year after. Therefore, the next emission statement for this source must be submitted by July 1, 2013. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

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

State Rule Applicability – Individual Facilities

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

The operation of Boiler #1 will emit greater than 10 tons per year of a single HAP and 25 tons per year of a combination of HAPs. However, Boiler #1 is not subject to 326 IAC 2-4.1 since it was constructed before the applicability date of July 27, 1997 and has not been modified since it was constructed in 1967.

326 IAC 5-1-3 (Opacity Exemption)

Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations) the following applies to Boiler #1:

- (a) When building a new fire in a boiler, opacity may exceed the 30% opacity limitation for a period not to exceed thirty six (36) minutes (six (6)-minute averaging periods), with opacity not to exceed eighty (80) percent.
- (b) When shutting down a boiler, opacity may not exceed sixty (60) percent 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 hour period.
- (c) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period.

326 IAC 6.5-1-2 (Particulate Matter Limitations: Dubois County)

Pursuant to 326 IAC 6.5-1-2 (Particulate Matter Limitations: Dubois County), the coal and ash handling units shall not allow or permit discharge to the atmosphere of any gases which contain particulate matter in excess of 0.03 grain per dry standard cubic foot (dscf).

The control equipment shall be in operation at all times the associated facility is in operation.

326 IAC 6.5-4-18 (Particulate Matter Limitations: Dubois County)

Pursuant to 326 IAC 6.5-4-18 (Particulate Matter Limitations: Dubois County), particulate matter from Boiler #1 shall in no case exceed 0.350 lb/MMBtu heat input and 265.6 tons/year.

The electrostatic precipitator shall be in operation at all times Boiler #1 is in operation.

326 IAC 7-1.1-2 (Sulfur Dioxide Emissions Limitations)

Pursuant to 326 IAC 7-1.1-2(a)(1) (Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler #1 shall not exceed 6.0 pounds per million Btu (lbs/MMBtu) when combusting coal.

Boiler #1 is in compliance based on the type of coal combusted. The potential sulfur dioxide emissions for Boiler #1 are 2.48 lb/MMBtu. See Appendix A of this TSD for detailed calculations.

326 IAC 9-1-2 (Carbon monoxide Emission Limitations)

This source is not subject to 326 IAC 9-1-2 since it was constructed before the applicability date of March 21, 1972 and has not been modified since it was constructed in 1967.

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 source are as follows

Emission Unit	Control Device	Next Test Date	Pollutant	Frequency of Testing
Boiler #1	ESP	12/12	PM	Every 2 years

Control Devices	Parameter	Frequency	Range	Excursions and Exceedances
Electrostatic Precipitator (Boiler #1)	T-R sets in service	Daily	> 90% T-R sets in service	Response Steps
	Visible Emissions		Normal-Abnormal	

The emissions from coal handling are low, therefore there is no compliance monitoring included in the permit.

The baghouse is not required to comply with Ash Handling emission limit. Therefore there are no Compliance determination and compliance monitoring included in the permit.

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating 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.

An application for the purposes of this review was received on June 21, 2012.

Conclusion

The operation of this electric utility generation shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. 037-32039-00002.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Muhammad Khan at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-9664 or toll free at 1-800-451-6027 extension 3-9664.
- (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

Company Name: Jasper Municipal Electric Utility
 Address: 1163 E. 15th Street, Jasper, IN 47547
 Title V Renewal No.: T 037-32039-00002
 Reviewer: Muhammad D. Khan

SUMMARY UNCONTROLLED & LIMITED PTE (tons/yr)

Summary Uncontrolled PTE (tons/yr)

Pollutant	Spreader Stoker Boiler	Ash Handling Emissions	Coal Handling Emissions	Insignificant	TOTAL
PM	577.02	0.1300	0.0150	0.08	577.24
PM _{2.5}	375.06	0.0100	0.0020	0.33	375.40
PM ₁₀	375.06	0.0600	0.0130	0.33	375.46
SO ₂	2,740.83	--	--	0.03	2,740.86
VOC	3.37	--	--	0.24	3.60
CO	240.42	--	--	3.61	244.03
NO _x	528.93	--	--	4.29	533.23
CO _{2e}	231945	--	--	5163.53	237108.18
total HAPs	59.79	--	--	0.08	59.88
worst case single HAP	57.7 (Hydrogen Chloride)	--	--	0.077 (hexane)	57.7 (Hydrogen Chloride)

Total emissions are based on rated capacities at 8,760 hours/year.

Summary Limited PTE (tons/yr)

Pollutant	Spreader Stoker Boiler	Ash Handling Emissions	Coal Handling Emissions	Insignificant	TOTAL
PM	265.6	3.4	75.5	0.08	344.58
PM _{2.5}	375.1	3.4	75.5	0.33	454.29
PM ₁₀	375.1	3.4	75.5	0.33	454.29
SO ₂	6,636	--	--	0.03	6,635.73
VOC	3.37	--	--	0.24	3.60
CO	240.42	--	--	3.61	244.03
NO _x	528.93	--	--	4.29	533.23
CO _{2e}	231944.64	--	--	5163.53	237108.18
total HAPs	59.79	--	--	0.08	59.88
worst case single HAP	57.7 (Hydrogen Chloride)	--	--	0.077 (hexane)	57.7 (Hydrogen Chloride)

Total emissions are based on rated capacities at 8,760 hours/year.

Company Name: Jasper Municipal Electric Utility
Address: 1163 E. 15th Street, Jasper, IN 47547
Title V Renewal No.: T 037-32039-00002
Reviewer: Muhammad D. Khan

SUMMARY OF UNCONTROLLED PTE HAPs (tons/yr)

HAP	Spreader Stoker Boiler	Ash Emissions	Coal Emissions	Insignificant	TOTAL (tons/yr)
Benzene	--	--	--	9.02E-05	9.02E-05
Dichlorobenzene	--	--	--	5.15E-05	5.15E-05
Formaldehyde	--	--	--	3.22E-03	3.22E-03
Hexane	--	--	--	7.73E-02	7.73E-02
Toluene	--	--	--	1.46E-04	1.46E-04
Arsenic	1.97E-02	--	--	--	1.97E-02
Beryllium	1.01E-03	--	--	--	1.01E-03
Cadmium	2.45E-03	--	--	4.72E-05	2.50E-03
Chromium	1.25E-02	--	--	6.01E-05	1.26E-02
Lead	2.02E-02	--	--	2.15E-05	2.02E-02
Chlorine	1.93E+00	--	--	--	1.93E+00
Hydrogen Chloride	5.77E+01	--	--	--	5.77E+01
Mercury	3.99E-03	--	--	--	3.99E-03
Manganese	2.36E-02	--	--	1.63E-05	2.36E-02
Nickel	1.35E-02	--	--	9.02E-05	1.36E-02
Selenium	6.25E-02	--	--	--	6.25E-02
total HAPs	5.98E+01	--	--	8.10E-02	5.99E+01
worst case single HAP	57.7 (Hydrogen Chloride)	--	--	0.077 (hexane)	57.7 (Hydrogen Chloride)

Total emissions are based on rated capacities at 8,760 hours/year.

Company Name: Jasper Municipal Electric Utility
 Address : 1163 E. 15th Street, Jasper, IN 47547
 Permit: T 037-32039-00002
 Reviewer: Muhammad D. Khan

Industrial Boiler #1

One (1) Boiler on Bituminous Coal (Spreader Stoker)

Unit ID	Heat Input Capacity (MMBtu/hr)	Potential Throughput (tons/yr)
Boiler #1	252.50	96,169.57
Total	252.50	96,169.57

S = Weight % Sulfur	A = Ash Content in %
1.5	10.5

Emission Factor in lb/ton	PM	PM2.5	PM10	SO2	NOx	VOC	CO
	12.0	7.8	7.8	57.0 (38S)	11.0	0.07	5.0
Potential Emission in tons/yr	577.02	375.06	375.06	2,740.83	528.93	3.37	240.42

Methodology

Heat Content of Coal = 11,500 BTU/lb and is taken from the application

Emission Factors are from AP 42, Chapter 1.1, Tables 1.1-3, 1.1-4, and 1.1-13 (SCC 1-01-002-05/25, 1-01-002-04/24) dated 9/98

Potential Throughput (tons/yr) = Heat Input Capacity (MMBtu/hr) x 10⁶ Btu/MMBtu x 8,760 hrs/yr / Heat Content of Coal (Btu/lb) / 2000 lb/ton

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

Note: Check applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
Permit: T 037-32039-00002
Reviewer: Muhammad D. Khan
HAPs Emissions

	Arsenic	Beryllium	Cadmium	Chromium	Lead	Chlorine	Hydrogen Chloride
Emission Factor in lb/ton	4.10E-04	2.10E-05	5.10E-05	2.60E-04	4.20E-04	4.02E-02	1.20E+00
Potential Emission in tons/yr	1.97E-02	1.01E-03	2.45E-03	1.25E-02	2.02E-02	1.93E+00	5.77E+01

	Mercury	Manganese	Nickel	Selenium	Total HAPs
Emission Factor in lb/ton	8.30E-05	4.90E-04	2.80E-04	1.30E-03	
Potential Emission in tons/yr	3.99E-03	2.36E-02	1.35E-02	6.25E-02	59.79

Methodology

Heat Content of Coal = 11,500 BTU/lb and is taken from the application

Emission Factors are from AP 42, Chapter 1.1, Tables 1.1-18 dated 9/98

Emission Factor for Chlorine was taken from the "Jasper Municipal Electric Utility, 1995 Emission Inventory", which was submitted with the Title V Application

Potential Emissions (tons/year) = Throughput (tons/year) x Emission Factor (lb/ton) / 2,000 lb/ton

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

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
Permit: T 037-32039-00002
Reviewer: Muhammad D. Khan
Greenhouse Gas Emissions

Emission Factor in lb/ton	Greenhouse Gas		
	CO2	CH4	N2O
	4,810	0.06	0.04
Potential Emission in tons/yr	231,288	2.9	1.9
Summed Potential Emissions in tons/yr	231,293		
CO2e Total in tons/yr	231,945		

Methodology

Emission Factors from AP-42, Chapter 1.1 Table 1.1-19 & 1.1-20 for Spreader stoker with multiple cyclones SCC 1-01-002-04/24

Potential Throughput (tons/yr) = Heat Input Capacity (MMBtu/hr) x 10⁶ Btu/MMBtu x 8,760 hrs/yr / Heat Content of Coal (Btu/lb) / 2000 lb/ton

Emission (tons/yr) = Throughput tons per year x Emission Factor (lb/ton) / 2,000 lb/ton

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
Permit: T 037-32039-00002
Reviewer: Muhammad D.Khan

Controlled / Limited PTE

Industrial Boiler

One (1) Boiler on Bituminous Coal (Spreader Stoker)

Unit ID	Heat Input Capacity (MMBtu/hr)	Potential Throughput (tons/yr)
Boiler #1	252.50	96,169.57
Total	252.50	96,169.57

S = Weight % Sulfur	A = Ash Content in %
1.5	10.5

	PM	PM2.5	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/ton	0.48	0.44	0.44	57.0 (38S)	11.0	0.07	5.0
Controlled PTE in tons/yr	23.08	21.16	21.16	2,740.83	528.93	3.37	240.42
Limited PTE in tons/yr	265.6*	265.6*	265.6*	6636**	--	--	--

Methodology

Heat Content of Coal = 11,500 BTU/lb and is taken from the application

Emission Factors are from AP 42, Chapter 1.1, Tables 1.1-3, 1.1-4, and 1.1-13 (SCC 1-01-002-05/25, 1-01-002-04/24) dated 9/98

Potential Throughput (tons/yr) = Heat Input Capacity (MMBtu/hr) x 10⁶ Btu/MM Btu x 8,760 hrs/yr / Heat Content of Coal (Btu/lb) / 2000 lb/ton

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

Note: Check applicable rules and test methods for PM and PM10 when using the EFs to confirm the correct factor is used (i.e., condensable included/not included).

* Pursuant to 326 IAC 6.5-4-18, particulate limited to 0.350 lb/MMBtu and 265.6 TPY.

** Pursuant to 326 IAC 7-1.1-2, SO2 limited to 6.0 lb/MMBtu.

Company Name: Jasper Municipal Electric Utility
 Address : 1163 E. 15th Street, Jasper, IN 47547
 Permit: T 037-32039-00002
 Reviewer: Muhammad D. Khan

Coal Particulate Emissions (Uncontrolled and Limited)

Throughput (TPY)		Unloading Raw Coal	Conveying Coal
			74,666
k	PM	0.74	0.74
	PM10	0.35	0.35
	PM2.5	0.053	0.053
U-Mean Wind Speed MPH		8.2	8.2
M-Moisture Content		11.7	11.7
PM Emission Factor (lb/ton)		0.00038	0.00038
PM10 Emission Factor (lb/ton)		0.00018	0.00018
PM2.5 Emission Factor (lb/ton)		0.00003	0.00003
Transfer Points		1	1

Uncontrolled PTE (TPY)	Unloading Raw Coal	Conveying Coal	Total
PM	0.001016	0.014183	0.015
PM10	0.006708	0.006708	0.013
PM2.5	0.001016	0.001016	0.002

Limited PTE

Throughput (TPY)	Throughput (TPH)	Emission (lb/hr)	Emission (TPY)
74,666	8.524	17.231	75.470

Emission Factor = $(k)(0.0032)[(U/5)^{1.3} / (M/2)^{1.4}]$, AP-42, Chapter 13.2.4, 11/06
 PTE = Emission Factor (lb/ton) x Throughput (ton/yr) x (1 ton / 2,000 lb)
 Pursuant to 326 IAC 6-3-2 Particular Matter Emission Limited to $E=4.10P^{0.67}$

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
Permit: T 037-32039-00002
Reviewer: Muhammad D. Khan

Ash Particulate Emissions (Uncontrolled and Limited)

		Unloading Ash	Ash Loadout
Throughput (TPY)		7,840	7,840
K	PM	0.74	0.74
	PM10	0.35	0.35
	PM2.5	0.053	0.053
U-Mean Wind Speed MPH		8.2	8.2
M-Moisture Content		0.8	0.8
PM-Emission Factor (lb/ton)		0.02	0.02
PM10 Emission Factor (lb/ton)		0.01	0.01
PM2.5 Emission Factor (lb/ton)		0.001	0.001

Uncontrolled PTE (TPY)	Unloading Ash	Ash Loadout	Total
PM	0.06	0.06	0.13
PM10	0.03	0.03	0.06
PM2.5	0.00	0.00	0.01

Limited PTE (TPY)

Flow rate (ACFM)	PM Emissions (dscf)	Emission (TPY)
3000	0.03	3.379

Emission Factor = $(k)(0.0032)[(U/5)^{1.3} / (M/2)^{1.4}]$, AP-42, Chapter 13.2.4, 11/06

PTE = Emission Factor (lb/ton) x Throughput (ton/yr) x (1 ton / 2,000 lb)

Pursuant to 326 IAC 6.5-1-2, particulate matter shall be limited to 3.4 TPY.

(Based on a flow rate of 3,000 acfm)

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
Permit: T 037-32039-00002
Reviewer: Muhammad D. Khan

Natural Gas Combustion Only
MMBTU/HR <10
Natural Combustion

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
10.0	1020	85.9

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.1	0.3	0.3	0.0	4.3	0.2	3.6

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

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

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
Permit: T 037-32039-00002
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HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	9.018E-05	5.153E-05	3.221E-03	7.729E-02	1.460E-04

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.147E-05	4.724E-05	6.012E-05	1.632E-05	9.018E-05

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Company Name: Jasper Municipal Electric Utility
Address : 1163 E. 15th Street, Jasper, IN 47547
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Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	0.64
Potential Emission in tons/yr	5,153	0.1	0.0
Summed Potential Emissions in tons/yr	5,153		
CO2e Total in tons/yr	5,164		

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
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: Windell Toby
Jasper Municipal Electric Utility
PO Box 750
Jasper, IN 47547

DATE: May 15, 2013

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

SUBJECT: Final Decision
Part 70 Operating Permit Renewal
037-32039-00002

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.

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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May 15, 2013

TO: Jasper Dubois 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: Jasper Municipal Electric Utility
Permit Number: 037-32039-00002

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	GHOTOPP 5/15/2013 Jasper Municipal Electric Utility 037-32039-00002 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	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		

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1		Windell Toby Jasper Municipal Electric Utility PO Box 750 Jasper IN 47547 (Source CAATS) via confirmed delivery										
2		Dubois County Commissioners One Courthouse Square Jasper IN 47546 (Local Official)										
3		Jasper Dubois County Public Library 1116 Main St Jasper IN 47546-2899 (Library)										
4		Jasper City Council and Mayors Office PO Box 29, 610 Main Jasper IN 47546 (Local Official)										
5		Mr. Alec Kalla 8733 W. Summit Circle Drive French Lick IN 47432 (Affected Party)										
6		DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 (Health Department)										
7		Cara Jones 2315 Cider Fork Rd Marengo IN 47140 (Affected Party)										
8		Jeanne Melchior 880 Church Avenue Jasper IN 47546 (Affected Party)										
9		Bowden Quinn Sierra Club - Hoosier Chapter 1100 W. 42nd St., Suite 140 Indianapolis IN 46208 (Affected Party)										
10		Gina Herman 580 Riverside Dr Jasper IN 47546 (Affected Party)										
11		Mr. Rock Emmert 6431 E 700 S Ferdinand IN 47532 (Affected Party)										
12		Mr. Michael Hicks 580 Riverside Dr Jasper IN 47546 (Affected Party)										
13		Ms. Norma Kreilein 1366 Altmeyer Rd Jasper IN 47546 (Affected Party)										
14		Jesse Kharbanda Hoosier Environmental Council 3951 N. Meridian, Ste 100 Indianapolis IN 46208 (Affected Party)										
15		Kelly Flamion P.O. Box 17 Ireland IN 47545 (Affected Party)										
16		John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										

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