



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 10, 2008

RE: Hoosier Energy REC., Inc. - Merom Generating Station / 153-27123-00005

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER-MOD.dot 12/3/07



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December 10, 2008

Mr. Darrell Bayless
Hoosier Energy Rural Electric Cooperative, Inc.-Merom Generating Station
P.O. Box 908
Bloomington, Indiana 47402

Re: 153-27123-00005
Minor Source Modification to
Part 70 Renewal No.: T 153-6931-00005

Dear Mr. Bayless:

Hoosier Energy Rural Electric Cooperative, Inc.-Merom Generating Station was issued a Part 70 Operating Permit on July 13, 2004, for the operation of a stationary electric generating station. A letter requesting changes to this permit was received on November 6, 2008. Pursuant to 326 IAC 2-7-10.5(d) (3) the following emission units are approved for construction at the source:

- (a) Two (2) lime kiln dust silos, identified as LKD Silo 1 and LKD Silo 2, approved for construction in 2008, each with a nominal throughput of 3.75 tons per hour, with emissions controlled by LKD Silo Baghouse 1 and LKD Silo Baghouse 2, respectively, and exhausting to LKD Silo Vent 1 and LKD Silo Vent 2, respectively.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

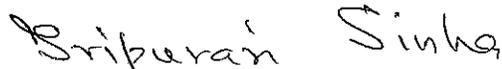
1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13.17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

The source may begin operation when the minor source modification has been issued. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire Part 70 Operating Permit as modified will be provided at issuance.

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Timothy R. Pettifor OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for extension (4-5300), or dial (317) 234-5300.

Sincerely,


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

Attachments:

Updated Permit
Technical Support Document
PTE Calculations

TP

cc: File – Sullivan County
Sullivan County Health Department
U.S. EPA, Region V
Air Compliance Inspector
Compliance Data Section
Permits Administration and Development



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PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

Hoosier Energy Rural Electric Cooperative, Inc.
Merom Generating Station
5500 West Old 54
Sullivan, Indiana 47882

(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.

Minor Source Modification No.: 153-27123-00005	
Issued By: <i>Tripurari P. Sinha</i> Tripurari P. Sinha, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: December 10, 2008

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary electric generating station.

Source Address:	5500 West Old 54, Sullivan, Indiana 47882
Mailing Address:	P.O. Box 908, Bloomington, IN 47402
General Source Phone Number:	(812) 876-2021
SIC Code:	4911
ORIS Code:	6213
County Location:	Sullivan
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules Major Source for HAPs 1 of 28 Source Categories Acid Rain Permit NO _x Budget Trading Program

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

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

- (1) One (1) pulverized coal-fired dry bottom boiler, identified as Unit 1 or 1SG1, constructed in 1976, rated at 5,088 million BTU per hour (MMBTU/hr) energy input, used to generate up to 490 megawatts (gross) of electricity. Unit 1 uses No. 2 fuel oil for start ups and flame stabilization. Unit 1 can not operate at load solely using No. 2 fuel oil.

Unit 1 utilizes the following control equipment:

- Electrostatic precipitator (ESP),
- Flue Gas Desulfurization (FGD) Wet Nonregenerative Scrubber System (identified as CE1B), and
- Selective Catalytic Reduction (SCR).

Controlled emissions from Unit 1 are exhausted to the atmosphere through a 19-foot diameter flue liner (SV1) which is housed in a 700-foot stack that is shared by both Unit 1 and Unit 2. Opacity is measured with a continuous opacity monitor (COM). Sulfur dioxide (SO₂) and nitrogen oxides (NO_x) emissions are measured with a SO₂ continuous emission monitor system (CEMS) and a NO_x CEMS, respectively.

- (2) One (1) pulverized coal-fired dry bottom boiler, identified as Unit 2 or 1SG2, constructed in 1976, rated at 5,088 million BTU per hour (MMBTU/hr) energy input, used to generate up to 490 megawatts (gross) of electricity. Unit 1 uses No. 2 fuel oil for start ups and flame stabilization. Unit 2 can not operate at load solely using No. 2 fuel oil.

Unit 2 utilizes the following control equipment:

- Electrostatic precipitator (ESP),
- Flue Gas Desulfurization (FGD) Wet Nonregenerative Scrubber System (identified as CE2B), and
- Selective Catalytic Reduction (SCR).

Controlled emissions from Unit 2 are exhausted to the atmosphere through a 19-foot diameter flue liner (SV2) which is housed in a 700-foot stack that is shared by both Unit 1 and Unit 2. Opacity is measured with a continuous opacity monitor (COM). Sulfur dioxide (SO₂) and nitrogen oxides (NO_x) emissions are measured with a SO₂ continuous emission monitor system (CEMS) and a NO_x CEMS, respectively.

- (3) Two (2) No. 2 distillate oil-fired auxiliary boilers, constructed in 1980, each with a heat input rate of 93.0 MMBTU/hour, and exhausting to stack SV3.
- (4) A coal storage and handling system, with a nominal throughput of 4,351,419 tons per year, consisting of the following equipment:
 - (a) One (1) unloading (rotary car dumper), with a nominal throughput of 2000 tons per hour, controlled by being partially enclosed and wet spray suppression.
 - (b) One (1) conveying system, with a nominal throughput of 2000 tons per hour, controlled by enclosures on the top and sides.
 - (c) One (1) breaker and crusher house (two crushers), with enclosed transfer points, each with a nominal throughput of 800 tons per hour, controlled by a wet spray suppression.
 - (d) One (1) stockout system with a nominal throughput of 2000 tons per hour, controlled by a lowering well (enclosed concrete cylinder with flapped openings at various elevations).
 - (e) One (1) reclaim system, with a nominal throughput of 750 tons per hour, controlled by enclosures and wet spray suppression.
 - (f) One (1) outdoor storage with a capacity of 500,000 tons controlled by layering and compaction.
 - (g) Two (2) lime kiln dust silos, identified as LKD Silo 1 and LKD Silo 2, approved for construction in 2008, each with a nominal throughput of 3.75 tons per hour, with emissions controlled by LKD Silo Baghouse 1 and LKD Silo Baghouse 2, respectively, and exhausting to LKD Silo Vent 1 and LKD Silo Vent 2, respectively.
- (5) A limestone storage and handling system, with a maximum throughput of 259,629 tons per year consisting of the following equipment:
 - (a) One (1) truck or railcar unloading station, with two (2) hoppers, which, in turn feed two (2) vibrating feeders, with a baghouse to control emissions.
 - (b) One (1) storage pile with a storage capacity of up to 90,000 tons of limestone.
 - (c) One (1) enclosed conveying system controlled by an enclosed building with a baghouse.
 - (d) One (1) reclaim system controlled by a baghouse in an enclosed building.
 - (e) One limestone crushing system (two crushers), located in the limestone preparation building. There are four (4) baghouses used to control emissions both before and after the limestone is crushed.
- (6) One (1) Coal Bed Methane (CBM) fired generating station consisting of the following:
 - (a) Three (3) CBM-fired engine generator sets, approved for construction in 2008, identified as CBM Eng-Gen 1, CBM Eng-Gen 2 and CBM Eng-Gen 3, each with a

maximum output capacity of 2,390 kilowatts with a maximum heat input capacity of 19.343 MMBtu/hr (3,346 HP), using three selective catalytic reduction (SCR) units, identified as SCR 1, SCR 2 and SCR 3, for NO_x and CO control, exhausting to Stack-CBM 1, Stack-CBM 2 and Stack-CBM 3. [Under 40 CFR Part 63, Subpart ZZZZ, CBM Eng-Gen 1, CBM Eng-Gen 2 and CBM Eng-Gen 3 are considered affected facilities.] [Under 40 CFR 60, Subpart JJJJ, CBM Eng-Gen 1, CBM Eng-Gen 2 and CBM Eng-Gen 3 are considered affected facilities.]

- (b) One (1) standby flare, approved for construction in 2008, identified as FL1, with a maximum heat input capacity of 58.02 MMBtu/hr, without control, exhausting to stack FL1.

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

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months.
- (b) One (1) emergency diesel generator, identified as EMDG-1, approved for construction in 2007, rated at less than 1600 horsepower, engine displacement volume less than 10 liters per cylinder and exhausting to the atmosphere.

The emergency generator, identified as EMDG-1, is subject to the requirements of New Source Performance Standards (NSPS) for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE), 40 CFR Part 60, Subpart IIII, and National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ.

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T153-6931-00005, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7]

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

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

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

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

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

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

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

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

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

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by

a “responsible official” of truth, accuracy, and completeness. This certification shall state

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

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification can cover multiple forms in one (1) submittal.
- (c) A “responsible official” is defined at 326 IAC 2-7-1(34).

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

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

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

and

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

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

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance

of this permit, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

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

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

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

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

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

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to 153-6931-00005 and issued pursuant to permitting programs approved into the state implementation plan have been either

- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act or 326 IAC 21 (Acid Deposition Control).

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

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

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

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

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

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

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

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

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

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

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act.[40 CFR 72]
- (c) Any application requesting an amendment or modification of this permit shall be submitted to:

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

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

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

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

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

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

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

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

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

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

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

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

The notification requirement per (a)(4) of this condition does not apply to emission trades of SO₂ or NO_x under 326 IAC 21 or 326 IAC 10-4.

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.
- (f) This condition does not apply to emission trades of SO₂ or NO_x under 326 IAC 21 or 326 IAC 10-4.

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

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

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

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 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 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 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 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

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

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

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. 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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

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

C.11 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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

C.12 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.13 Emergency Reduction Plans (ERPs) [326 IAC 1-5-2][326 IAC 1-5-3]

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on September 28, 2004.
- (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.14 Risk Management Plan (RMP) [326 IAC 2-7-5(12)][40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

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

- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

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

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

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

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

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

The emission statement must be submitted to:

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

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

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

any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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

calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq)) at an existing Electric Utility Steam Generating unit, then for that project the Permittee shall:
- (1) Submit to IDEM, OAQ a copy of the information required by (c)(1) Section C - General Record Keeping Requirements.
 - (2) Submit a report to IDEM, OAQ within sixty (60) days after the end of each year during which records are generated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements. The report shall contain all information and data describing the annual emissions for the emissions units during the calendar year that preceded the submission report.

Reports required in this part shall be submitted to:

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

- (g) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit other than an Electric Utility Steam Generating Unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx), 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).
- (h) The report for a project at an existing emissions unit other than an Electric Utility Steam Generating Unit shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3).
 - (4) Any other information that the Permittee deems fit to include in this report,
- Reports required in this part shall be submitted to:
- Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (i) 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.

Ambient Monitoring Requirements [326 IAC 7-3]

C.20 Sulfur Dioxide (SO₂) Ambient Monitoring [326 IAC 7-3]

-
- (a) Pursuant to 326 IAC 7-3-2(d), the Permittee has been granted an administrative waiver of the requirements to operate continuous ambient SO₂ air quality monitors at this location. The Permittee shall immediately notify IDEM, OAQ in the event that the SO₂ emissions limit is exceeded. If the permittee fails to continuously meet the requirements for obtaining this waiver, or fails to comply with the conditions of this waiver, this waiver shall be rendered void. If this waiver is voided, the continuous ambient SO₂ air quality monitors shall be re-installed within 180 days after discovery of failed compliance. The re-installation monitoring plan shall include requirements listed in 326 IAC 7-3-2(a)(1), 326 IAC 7-3-2(a)(2) and 326 IAC 7-3-2(a)(3).
- (b) The permittee shall be limited to less than 25,000 tons of SO₂ emissions per twelve (12) consecutive month period with compliance determined at the end of each month.

- (1) To document compliance with the SO₂ emissions limit, the Permittee shall maintain monthly records of SO₂ emissions, with calendar dates covered in the compliance determination period indicated. Records shall be maintained to be complete and sufficient to establish compliance with the SO₂ emissions limit. All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
 - (2) A quarterly summary of the information to document compliance with the SO₂ emissions limit shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Upon re-installation of the continuous ambient SO₂ air quality monitors the permittee shall comply with the following:
- (1) Pursuant to 326 IAC 7-3-2(a), the Permittee shall operate continuous ambient SO₂ air quality monitors and a meteorological data acquisition according to a monitoring plan submitted to the Commissioner for approval. The monitoring plan shall include requirements listed in 326 IAC 7-3-2(a)(1), 326 IAC 7-3-2(a)(2) and 326 IAC 7-3-2(a)(3).
 - (2) The Permittee has submitted a monitoring plan as required under 326 IAC 7-3-2(b).
 - (3) Pursuant to 326 IAC 7-3-2(c), the Permittee and other operators subject to the requirements of this rule, located in the same county, may submit a joint monitoring plan to satisfy the requirements of this rule.
 - (4) Pursuant to 326 IAC 7-3-2(d), the Permittee may petition the Commissioner for an administrative waiver of all or some of the requirements of 326 IAC 7-3 if the Permittee can demonstrate that ambient monitoring is unnecessary to determine continued maintenance of the sulfur dioxide ambient air quality standards in the vicinity of the source.
 - (5) Pursuant to 326 IAC 7-3-2(a)(2), the Permittee shall report the air quality and meteorological data in a format specified by the Commissioner, within ninety (90) days after the end of each calendar quarter.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.3 FACILITY OPERATION CONDITIONS

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

A coal storage and handling system, with a nominal throughput of 4,351,419 tons per year, consisting of the following equipment:

- (a) One (1) unloading (rotary car dumper), with a nominal throughput of 2000 tons per hour, controlled by being partially enclosed and wet spray suppression.
- (b) One (1) conveying system, with a nominal throughput of 2000 tons per hour, controlled by enclosures on the top and sides.
- (c) One (1) breaker and crusher house (two crushers), with enclosed transfer points, each with a nominal throughput of 800 tons per hour, controlled by a wet spray suppression.
- (d) One (1) stockout system, with a nominal throughput of 2000 tons per hour, controlled by a lowering well (enclosed concrete cylinder with flapped openings at various elevations).
- (e) One (1) reclaim system, with a nominal throughput of 750 tons per hour, controlled by enclosures and wet spray suppression.
- (f) One (1) outdoor storage with a capacity of 500,000 tons controlled by layering and compaction.
- (g) Two (2) lime kiln dust silos, identified as LKD Silo 1 and LKD Silo 2, approved for construction in 2008, each with a nominal throughput of 3.75 tons per hour, with emissions controlled by LKD Silo Baghouse 1 and LKD Silo Baghouse 2, respectively, and exhausting to LKD Silo Vent 1 and LKD Silo Vent 2, respectively.

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

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

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

- (a) Pursuant to 326 IAC 6-3-2:
 - (i) the particulate matter (PM) from the rotary car dumper shall not exceed 86.9 pounds per hour when operating at a process weight rate of 2000 tons per hour.
 - (ii) the particulate matter (PM) from the conveying system shall not exceed 86.9 pounds per hour when operating at a process weight rate of 2000 tons per hour.
 - (iii) the particulate matter (PM) from the crushers shall not exceed 74.7 pounds per hour when operating at a process weight rate of 800 tons per hour.
 - (iv) the particulate matter (PM) from the stockout system shall not exceed 86.9 pounds per hour when operating at a process weight rate of 2000 tons per hour.
 - (v) the particulate matter (PM) from the reclaim system shall not exceed 73.93 pounds per hour when operating at a process weight rate of 750 tons per hour.

These rates are derived from the interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the following equation:

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

- (b) Pursuant to 326 IAC 6-3-2(e)(3), the allowable PM emissions may exceed the limits in Condition D.3.1(a), provided the concentration of PM in discharge gases to the atmosphere is less than one-tenth (0.10) pounds per thousand (1,000) pounds of gases.
- (c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the lime kiln dust silos shall not exceed 9.94 pounds per hour when operating at a process weight rate of 3.75 tons per hour.

This rate is derived from the interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the following equation:

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

D.3.2 New Source Performance Standard [326 IAC 12-1][40 CFR 60, Subpart A][40 CFR 60, Subpart Y]

- (a) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart Y.
- (b) Pursuant to 326 IAC 12 and 40 CFR 60.252(c), the exhaust from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system shall not exhibit twenty percent (20%) opacity or greater.

D.3.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.3.4 New Source Performance Standard Compliance Provisions [326 IAC 12][40 CFR 60, Subpart Y]

Pursuant to 40 CFR Part 60.254(b)(2), Method 9 and the procedures in 40 CFR Part 60.11 shall be used to determine opacity for the coal processing and conveying equipment, coal storage system, or coal transfer and loading system.

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

D.3.5 Visible Emissions Notations -- Coal Unloading [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of the coal unloading station shall be performed once per week during normal daylight operations while unloading coal. A trained employee shall record whether any emissions are observed.
- (b) If any visible emissions of the dust are observed from the unloading station, the crusher station or the transfer points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of visible emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that

specific process.

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

D.3.6 Record Keeping Requirements

- (a) Pursuant to 40 CFR Part 60, Subpart Y, the Permittee shall maintain records of the results performance test(s) required to show compliance with the opacity standard.
- (b) The Permittee shall maintain records of the Method 9 readings of the coal processing and conveying equipment, coal storage system, or coal transfer and loading system.
- (c) The Permittee shall maintain records of the once per week visible emission notations of the coal unloading station exhaust and make available upon request to IDEM, OAQ and US EPA. The Permittee shall include in its weekly record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.7 Reporting Requirements

- (a) Pursuant to 40 CFR Part 60, Subpart Y, The Permittee shall submit:
 - results of the performance test, and
 - a quarterly summary of the excess opacity readings.

These records shall be submitted to the:

Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46246-2251

These reports shall be submitted no later than 30 calendar days following the end of each calendar quarter.

Submissions of these reports to IDEM, OAQ satisfy the federal reporting requirements of 40 CFR Part 60, Subpart Y.

- (b) These results shall be submitted in accordance with Section C - General Reporting Requirements of this permit.
- (c) The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Part 70 Minor Source Modification

Source Description and Location

Source Name:	Hoosier Energy REC, Inc. - Merom Generating Station
Source Location:	5500 West Old 54, Sullivan, Indiana 47882
County:	Sullivan
SIC Code:	4911
Operation Permit No.:	T 153-6931-00005
Operation Permit Issuance Date:	July 13, 2004
Minor Source Modification No.:	T 153-27123-00005
Permit Reviewer:	Timothy R. Pettifor

Existing Approvals

The source was issued Part 70 Operating Permit No. T 153-6931-00005 on July 13, 2004. The source has since received the following approvals:

- (a) Second Significant Permit Modification No. 153-26653-00005, issued October 27, 2008;
- (b) First Administrative Amendment No. 153-22030-00005, issued on December 28, 2005;
- (c) Acid Rain Renewal No. AR 153-19646-00005, issued on May 1, 2006;
- (d) First Significant Permit Modification No. 153-24524-00005, issued on January 15, 2008;

County Attainment Status

The source is located in Sullivan County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

- (a) Ozone Standards
 - (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
 - (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a

temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph as attainment for the 8-hour ozone standard.

- (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 NOx emissions are considered when evaluating the rule applicability relating to ozone. Sullivan County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM2.5**
Sullivan County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15th, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.
- (c) **Other Criteria Pollutants**
Sullivan County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) **Fugitive Emissions**
Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD applicability.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	>100
PM ₁₀	>100
SO ₂	>100
VOC	>100
CO	>100
NO _x	>100

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) These emissions are based upon Part 70 Operating Permit T 153-6931-00005.

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

HAPs	Potential To Emit (ton/yr)
Single HAP	>10
Total HAPs	>25
Total	>25

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

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Hoosier Energy REC, Inc. -- Merom Generating Station on November 06, 2008, relating to the construction of two lime kiln storage silos. The following is a list of the proposed emission unit(s) and pollution control device(s):

- (a) Two (2) lime kiln dust silos, identified as LKD Silo 1 and LKD Silo 2, approved for construction in 2008, each with a nominal throughput of 3.75 tons per hour, with emissions controlled by LKD Silo Baghouse 1 and LKD Silo Baghouse 2, respectively, and exhausting to LKD Silo Vent 1 and LKD Silo Vent 2, respectively.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	14.9
PM ₁₀	7.6
SO ₂	0.0
VOC	0.0
CO	0.0
NO _x	0.0

This source modification is subject to 326 IAC 2-7-10.5(d)(3) because the potential to emit of PM and PM10 is less than twenty-five (25) tons per year, respectively. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because this modification is being combined with a modification that involves significant changes to the existing monitoring, reporting and record keeping requirements of the permit.

Permit Level Determination – PSD

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

Process / Emission Unit	Potential to Emit (ton/yr)					
	PM	PM₁₀	SO₂	VOC	CO	NO_x
Fugitive Emissions from Delivery Trucks	1.11	1.11	--	--	--	--
Unloading to LKD Silos	7.83	5.00	--	--	--	--
Conveyors CH-ERC-1 & 2 to Conveyors CH-CV4 A & B	negl.	negl.	--	--	--	--
Conveyors CH-CV4 A & B to Surge Bins	0.13	0.06	--	--	--	--
Surge Bins (via enclosed crushers and chutes) to Conveyors	0.13	0.06	--	--	--	--
Conveyors CH-CV5A & B to Conveyors CH-CV-6A & B	0.13	0.06	--	--	--	--
Conveyors CH-CV-6A & B to Traveling Tripper	0.13	0.06	--	--	--	--
Additional Particulate Loading in Boilers	5.44	1.25	--	--	--	--
Total for Modification	14.90	7.60	--	--	--	--
Significant Levels	25	15	40	40	100	40

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

Federal Rule Applicability Determination

NSPS:

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

NESHAP:

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

State Rule Applicability Determination

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

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

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the lime kiln dust silos shall not exceed 9.94 pounds per hour when operating at a process weight rate of 3.75 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

Compliance Determination and Monitoring Requirements

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

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

There are no new compliance monitoring requirements applicable to this modification.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T 153-6931-00005. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

- Change 1: The lime kiln dust silos have been added to the emission unit descriptions in Conditions A.2 and D.3. The descriptions for the other emission units in the coal storage and handling system have also been updated.

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

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

...

- (4) A coal storage and handling system, with a ~~maximum~~ **nominal** throughput of 4,351,419 tons per year, consisting of the following equipment:
 - (a) One (1) unloading (rotary car dumper), **with a nominal throughput of 2000 tons per hour**, controlled by being partially enclosed and wet spray suppression.
 - (b) One (1) conveying system, **with a nominal throughput of 2000 tons per hour**, controlled by enclosures on the top and sides.
 - (c) One (1) breaker and crusher house (two crushers), with enclosed transfer points, **each with a nominal throughput of 800 tons per hour**, controlled by a wet spray suppression.
 - (d) One (1) stockout system **with a nominal throughput of 2000 tons per hour**, controlled by a lowering well (enclosed concrete cylinder with flapped openings at various elevations).
 - (e) One (1) reclaim system, **with a nominal throughput of 750 tons per hour**, controlled by enclosures and wet spray suppression.
 - (f) One (1) outdoor storage with a capacity of 500,000 tons controlled by layering and compaction.
 - (g) **Two (2) lime kiln dust silos, identified as LKD Silo 1 and LKD Silo 2, approved for construction in 2008, each with a nominal throughput of 3.75 tons per hour, with emissions controlled by LKD Silo Baghouse 1 and LKD Silo Baghouse 2, respectively, and exhausting to LKD Silo Vent 1 and LKD Silo Vent 2, respectively.**

...

SECTION D.3 FACILITY OPERATION CONDITIONS

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

A coal storage and handling system, with a ~~maximum~~ **nominal** throughput of 4,351,419 tons per year, consisting of the following equipment:

- (a) One (1) unloading (rotary car dumper), **with a nominal throughput of 2000 tons per hour**, controlled by being partially enclosed and wet spray suppression.
- (b) One (1) conveying system, **with a nominal throughput of 2000 tons per hour**, controlled by enclosures on the top and sides.
- (c) One (1) breaker and crusher house (two crushers), with enclosed transfer points **each with a nominal throughput of 800 tons per hour**, controlled by a wet spray suppression.
- (d) One (1) stockout system, **with a nominal throughput of 2000 tons per hour**, controlled by a lowering well (enclosed concrete cylinder with flapped openings at various elevations).
- (e) One (1) reclaim system, **with a nominal throughput of 750 tons per hour**, controlled by enclosures and wet spray suppression.
- (f) One (1) outdoor storage with a capacity of 500,000 tons controlled by layering and compaction.
- (g) **Two (2) lime kiln dust silos, identified as LKD Silo 1 and LKD Silo 2, approved for construction in 2008, each with a nominal throughput of 3.75 tons per hour, with emissions controlled by LKD Silo Baghouse 1 and LKD Silo Baghouse 2, respectively, and exhausting to LKD Silo Vent 1 and LKD Silo Vent 2, respectively.**

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

Change 2: The 326 IAC 6-3-2 limit for the lime kiln dust silos has been added to Condition D.3.1. The 326 IAC 6-3-2 limits for the other emission units have also been revised.

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

~~Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations, work practices, and control technologies), the allowable particulate emissions rate from the coal handling and storage system shall not exceed 68.88 pounds per hour.~~

- (a) Pursuant to 326 IAC 6-3-2:
 - (i) **the particulate matter (PM) from the rotary car dumper shall not exceed 86.9 pounds per hour when operating at a process weight rate of 2000 tons per hour.**
 - (ii) **the particulate matter (PM) from the conveying system shall not exceed 86.9 pounds per hour when operating at a process weight rate of 2000 tons per hour.**
 - (iii) **the particulate matter (PM) from the crushers shall not exceed 74.7 pounds per hour when operating at a process weight rate of 800 tons per hour.**

- (iv) the particulate matter (PM) from the stockout system shall not exceed 86.9 pounds per hour when operating at a process weight rate of 2000 tons per hour.
- (v) the particulate matter (PM) from the reclaim system shall not exceed 73.93 pounds per hour when operating at a process weight rate of 750 tons per hour.

This ~~These~~ rates ~~is are~~ derived from the interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the following equation:

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

- (b) Pursuant to 326 IAC 6-3-2(e)(3), the allowable PM emissions may exceed the limits in Condition D.3.1(a), provided the concentration of PM in discharge gases to the atmosphere is less than one-tenth (0.10) pound per thousand (1,000) pounds of gases.
- (c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the lime kiln dust silos shall not exceed 9.94 pounds per hour when operating at a process weight rate of 3.75 tons per hour.

This rate is derived from the interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the following equation:

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

Change 2: Conditions D.3.3 and D.3.4 have been removed since the limits in these conditions are already listed in Condition C.2 and C.5. Subsequent conditions in Section D.3 were renumbered.

~~D.3.3 Opacity -- Coal Unloading [326 IAC 5-1]~~

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

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

~~D.3.4 Fugitive Dust Emissions [326 IAC 6-4]~~

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

Change 3: The language in Condition D.3.6(c) has also been updated.

D.3.6 Record Keeping Requirements

...

- (c) The Permittee shall maintain records of the once per week visible emission notations of the coal unloading station exhaust and make available upon request to IDEM, OAQ and US EPA. **The Permittee shall include in its weekly record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).**

...

Change 4: The language in Condition D.3.2(b) has been revised for clarity.

D.3.2 New Source Performance Standard [326 IAC12-1][40 CFR 60, Subpart A][40 CFR 60, Subpart Y]

...

- (b) Pursuant to 326 IAC 12 and 40 CFR 60.252(c), the exhaust from any coal processing and conveying equipment, coal storage system, or coaling transfer and loading system shall not ~~exceed~~ **exhibit** twenty percent (20%) **opacity or greater**.

...

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 153-27123-00005. The staff recommend to the Commissioner that this Part 70 Minor Source Modification be approved.

Appendix A: Emission Calculations

Company Name: Hoosier Energy REC, Inc.--Merom Generating Station
Address: 5500 West Old 54, Sullivan, Indiana 47882
Minor Source Modification: 153-27123-00005
Reviewer: Timothy R. Pettifor
Date: 11/17/08

Particulate PTE and PTE After Controls For Lime Kiln Dust Silo Unloading

Combined Total Throughput (Tons/yr) for both LKD Silos 1 & 2 = 21,757.1 tpy ⁽¹⁾

Emission Source	Pollutant	Calculation Basis	Emission Factor	Units	Reference	PTE (tons/yr)	PTE After Controls (tons/yr)
Lime Kiln Dust Unloading to two (2) Silos (LKD Silo 1 & 2)	PM	EF	0.72	lb/ton	AP42, 11.12-6	7.83	0.3
Lime Kiln Dust Unloading to two (2) Silos (LKD Silo 1 & 2)	PM10	EF	0.46	lb/ton	AP42, 11.12-6	5.00	0.3

Methodology:

PM PTE Before Controls

$(21,757.1 \text{ tpy}) \times (0.72 \text{ lbs/ton}) \times (1 \text{ ton}/2000\text{lbs}) = 7.83 \text{ tons/yr}$

PM10 PTE Before Controls

$(21,757.1 \text{ tpy}) \times (0.46 \text{ lbs/ton}) \times (1 \text{ ton}/2000\text{lbs}) = 5.00 \text{ tons/yr}$

PM/PM10 PTE After Controls

Each silo is equipped with one (1) baghouse with a grain loading of 0.01 g/scf and a control efficiency of 99.9%

$(786.7 \text{ scfm}) \times (0.01 \text{ g/scf}) \times 60 \text{ min/hr} \times 1 \text{ lb}/7000\text{g} \times 8760 \text{ hr/yr} \times 1 \text{ ton}/2000 \text{ lbs} = 0.29 \text{ tons/yr}$

*The 786.7 scfm was calculated from acfm using -1.4 degrees F, which is the lowest temperature for Sullivan for 2008

⁽¹⁾ LKD combined throughput based on utilization rate .5% per ton maximum coal storage and handling throughput $(4,351,419 \text{ coal tpy} \times .005 = 21,757.1 \text{ LKD tpy})$

326 IAC 6-3-2 Limit: $E=4.10P^{0.67}=4.10(3.75 \text{ tons/hr})^{0.67}=9.94 \text{ lbs per hour}$

Uncontrolled Emissions: $3.75 \text{ tons/hr} \times 0.72 \text{ lb/ton} = 2.7 \text{ lbs per hour}$

Appendix A: Emission Calculations

Company Name: Hoosier Energy REC, Inc.--Merom Generating Station
Address: 5500 West Old 54, Sullivan, Indiana 47882
Minor Source Modification: 153-27123-00005
Reviewer: Timothy R. Pettifor
Date: 11/17/08

Combined Total Throughput (Tons/yr) for both LKD Silos 1 & 2 = 21,757.1 tpy

Emission Source Transfer Points	Pollutant	Calculation Basis	Emission Factor	Units	Reference	PTE (tons/yr)
Conveyors CH-CV4 A & B to Surge Bin	PM	EF	0.0117	lb/ton	AP42, 13.2.4.3	0.13
	PM ₁₀	EF	0.0055	lb/ton	AP42, 13.2.4.3	0.06
Surge bin to Conveyors CH-CV-5A & B	PM	EF	0.0117	lb/ton	AP42, 13.2.4.3	0.13
	PM ₁₀	EF	0.0055	lb/ton	AP42, 13.2.4.3	0.06
Conveyors CH-CV5A & B to Conveyors CH-CV-6A & B	PM	EF	0.0117	lb/ton	AP42, 13.2.4.3	0.13
	PM ₁₀	EF	0.0055	lb/ton	AP42, 13.2.4.3	0.06
Conveyors CH-CV6A & B to Traveling Tripper	PM	EF	0.0117	lb/ton	AP42, 13.2.4.3	0.13
	PM ₁₀	Ef	0.0055	lb/ton	AP42, 13.2.4.3	0.06

Notes:

Each silo unloads to one(1) of two (2) separate conveyor lines (A & B). The total throughput for both A & B is 21,757.1 tpy
Emissions are negligible for the underground Conveyors CH-ERC-1 & 2 transfer point to CH-CV-4 A & B Conveyors.

Methodology:

PM PTE Before Controls

$$(21,757.1 \text{ tpy}) \times (0.0117 \text{ lbs/ton}) \times (1 \text{ ton}/2000\text{lbs}) = 0.13 \text{ tons/yr}$$

Predictive Emission Factor Equation (AP-42 Chapter 13.2.4.3)

Transfer Points

$$E = k (.0032) (u/5)^{1.3} / (M/2) ^{1.4}$$

Whereas:

E = emission factor(lb/ton)

k = particle size multiplier (dimensionless)

U = mean wind speed, meters per second (m/s)
(miles per hour [mph])

M = assumed material moisture content (%)

Variables	k	U	M
PM10	0.35	8.1	1
PM	0.74	8.1	1

E= 0.0055 PM10 (lb/ton)
E= 0.0117 PM (lb/ton)

Appendix A: Emission Calculations

Company Name: Hoosier Energy REC, Inc.--Merom Generating Station
Address: 5500 West Old 54, Sullivan, Indiana 47882
Minor Source Modification: 153-27123-00005
Reviewer: Timothy R. Pettifor
Date: 11/17/08

Particulate PTE For Paved Roads

Predictive Emission Factor Equations (AP-42 Chapter 13.2.1.3)

Predictive Emission Factor

$$E = k (sL/2)^{0.65} * (W/3)^{1.5} - C$$

Whereas:

- E = particulate emission factor (having units matching the units of k)
- k = particle size multiplier for particle size range and units of interest (lb/VMT)
- sL = road surface silt loading (grams per square meter)
- W = average weight (tons) of the vehicles traveling the road, and
- C = emission factor for 1980's vehicle fleet exhaust brake wear and tire wear (lb/VMT)

Variables	k (lb/VMT)	C	sL (g/m ²)	W *(tons)
PM2.5	0.0024	0.00036	12	31
PM10	0.016	0.00047	12	31

$$E = 0.25513 \text{ lb/VMT} \quad \text{PM2.5}$$

$$E = 1.70278 \text{ lb/VMT} \quad \text{PM10}$$

* Average weight = 42 tons (loaded) + 20 tons (unloaded)/2

Precipitation Corrected Emission Factor

$$E_{\text{ext}} = E * (1 - P/4N)$$

Whereas:

- P = number of "wet" days with at least 0.254 (0.01 in) of precipitation during the averaging period
- N = number of days in the averaging period (365 for annual)

From Figure 13.2.1-2

$$P = 115$$

$$N = 365$$

$$E_{\text{ext}} = 0.23503 \text{ lb/VMT} \quad \text{PM 2.5}$$

$$E_{\text{ext}} = 1.56866 \text{ lb/VMT} \quad \text{PM 10}$$

PM10 PTE for Paved Roads is Negligible

$$1.57 \text{ lbs PM10/VMT} * 1.5 \text{ VMT/LKD load} = 2.355 \text{ lbs PM10/LKD load} * 946 \text{ LKD loads/year} * \text{ton}/2000 \text{ lbs} = 1.11 \text{ tpy}$$

PM2.5 PTE for Paved Roads is Negligible

$$0.24 \text{ lbs PM10/VMT} * 1.5 \text{ VMT/LKD load} = .36 \text{ lbs PM10/LKD load} * 946 \text{ LKD loads/year} * \text{ton}/2000 \text{ lbs} = 0.17 \text{ tpy}$$

Appendix A: Emission Calculations

Company Name: Hoosier Energy REC, Inc.--Merom Generating Station
Address: 5500 West Old 54, Sullivan, Indiana 47882
Minor Source Modification: 153-27123-00005
Reviewer: Timothy R. Pettifor
Date: 11/17/08

Potential to Emit

Process/Emission Unit	PM	PM₁₀	NO_x	SO₂	CO	VOC	Single/ Combined HAP
Fugitive Emissions from Delivery Trucks ⁽¹⁾	1.11	1.11	0.00	0.00	0.00	0.00	0.00
Unloading to LKD Silos	7.83	5.00	0.00	0.00	0.00	0.00	0.00
Conveyors CH-ERC-1 & 2 ⁽²⁾ to Conveyors CH-CV4 A & B	negl.	negl.	0.00	0.00	0.00	0.00	0.00
Conveyors CH-CV4 A & B to Surge Bins	0.13	0.06	0.00	0.00	0.00	0.00	0.00
Surge bins (via enclosed crushers and chutes) to Conveyors	0.13	0.06	0.00	0.00	0.00	0.00	0.00
Conveyors CH-CV5A & B to Conveyors CH-CV-6A & B	0.13	0.06	0.00	0.00	0.00	0.00	0.00
Conveyors CH-CV6A & B to Traveling Tripper	0.13	0.06	0.00	0.00	0.00	0.00	0.00
Additional Particulate Loading in Boilers ⁽³⁾	5.44	1.25	0.00	negl.	0.00	0.00	0.00
Total for Modification ⁽⁴⁾	14.90	7.60	0.00	0.00	0.00	0.00	0.00
PSD Trigger Levels	25	15	40	40	100	40	NA

⁽¹⁾ Fugitive Emissions from Delivery Trucks PM is assumed to equal PM10. PM > 10 microns is assumed to settle on plant property.

⁽²⁾ Transfer from Conveyors CH-ERC-1 & 2 to Conveyors CH-CV4 A & B is underground and enclosed

⁽³⁾ PM & PM₁₀ Additional Particulate Loading in Boilers is based on 21,757.1 LKD TPY X .5/.115 PM/PM₀ EF respectively X 1/2000 = 5.44 PM TPY and 1.25 PM₁₀ TPY. PM Uncontrolled EF 100 lbs/ton with 99.5% Control Efficiency and PM₀ Uncontrolled EF 23 lbs/ton with 99.5% control efficiency. LKD sulfur constituents are considered to be negligible.

⁽⁴⁾ All other emission units' values in the table are unrestricted/federally enforceable potential to emit.