



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
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TO: Interested Parties / Applicant
DATE: May 24, 2007
RE: Duke Energy/ 051-23526-00013
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

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

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

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
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Thomas W. Easterly
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May 24, 2007

Don Faulkner
Duke Energy Indiana, Inc.
c/o Patrick Coughlin 1000 E Main St
Plainfield, Indiana 46168

Re: 051-23526-00013
Second Significant Permit Modification to
Part 70 Permit No.: T051-7175-00013

Dear Don Faulkner:

PSI Energy, Inc. (now Duke Energy Indiana, Inc.) filed three petitions for administrative review for the following three permits/approvals issued for the Gibson Generating Station (Plant ID 051-00013):

- (a) PSI Energy, Inc. was issued a Part 70 Operating Permit No. T051-7175-00013 on July 7, 2004 for a stationary electric utility generating station located at S.R. 64 W & C.R. 975, Owensville, Indiana 47570. PSI Energy, Inc. filed a petition as Cause No. 04-A-J-3415 for administrative review of the Part 70 operating permit with the Office of Environmental Adjudication (OEA).
- (b) PSI Energy, Inc. was issued a Minor Source Modification No. 051-20836-00013 on March 11, 2005. PSI Energy, Inc. filed a petition as Cause No. 05-A-J-3525 for administrative review of the Minor Source Modification with the OEA.
- (c) PSI Energy, Inc. was issued a Minor Permit Modification No. 051-20033-00013 on December 27, 2005. PSI Energy, Inc. filed a petition as Cause No. 06-A-J-3665 for administrative review of the Minor Permit Modification with the OEA.

On June 21, 2006, the Office of Air Quality (OAQ) and PSI Energy, Inc. (now Duke Energy Indiana, Inc.) reached a settlement that would resolve each of the three petitions above. On July 21, 2006, the OAQ received a letter from PSI Energy, Inc., summarizing the settlement reached and changes agreed to be made to the operating permits for several PSI Energy, Inc. electric utility generating stations. This Significant Permit Modification (SPM) resolves each of the three petitions as agreed in the settlement for the PSI Energy, Inc. Gibson Generating Station (Plant ID 051-00013) only. This SPM does not contain any new equipment that would emit air pollutants; however, some conditions have been corrected, changed, or removed from the existing Part 70 Permit No. T051-7175-00013.

Pursuant to 326 IAC 2-7-12(d)(1), these changes are being made through a SPM to the Part 70 Permit. Pursuant to the provisions of 326 IAC 2-7-12 a SPM to this permit is hereby approved as described in the attached Technical Support Document.

All other conditions of the permit shall remain unchanged and in effect. Please find the enclosed copy of the revised entire permit for Duke Energy Indiana, Inc. - Gibson Generating Station.

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 Nathan Bell, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, at 317-234-3350 or at 1-800-451-6027 (ext 43350).

Original Signed By:

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

ncb

Attachments: Technical Support Document (TSD), Addendum to the TSD, and Significant Permit Modification

cc: File - Gibson County
U.S. EPA, Region V
IDEM Southwest Regional Office
Gibson County Health Department
Air Compliance Section Inspector - Dan Hancock
Compliance Data Section
Administrative and Development
Technical Support and Modeling
Office of Legal Counsel - Betsy Zlatos



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PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

Duke Energy Indiana, Inc. - Gibson Generating Station 1097 N 950 W Owensville, Indiana 47665

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B - Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

| | |
|---|--|
| Operation Permit No.: T051-7175-00013 | |
| Original Issued and Signed by Janet G. McCabe, Assistant Commissioner Office of Air Quality | Issuance Date: July 7, 2004 Expiration Date: July 7, 2009 |

First Minor Permit Modification No. 051-20033-00013, issued December 27, 2005
First Significant Permit Modification No. 051-17002-00013, issued March 23, 2006

| | |
|---|--|
| Second Significant Permit Modification (SPM) No. 051-23526-00013 | |
| Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality | Issuance Date: May 24, 2007 Expiration Date: July 7, 2009 |

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Attachment A: Title IV (Acid Rain) Permit Renewal No. AR 051-19353-00013, issued June 28, 2006

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 utility generating station.

Source Address: 1097 N 950 W, Owensville, Indiana 47665
Mailing Address: c/o Patrick Coughlin, 1000 East Main Street, Plainfield, Indiana 46168
Source Telephone: (317) 838-2108
SIC Code: 4911
County Location: Gibson
Source Location Status: Nonattainment for PM2.5
Attainment or unclassifiable for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD Rules
Major Source, under Emission Offset Rules
Major Source, Section 112 of the Clean Air Act
1 of 28 Listed Source Categories

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

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

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 1 is anticipated to begin operation in October 2007.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 2 is anticipated to begin operation in June 2007.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a flue gas conditioning system and an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 3.

This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D.

Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (e) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 5, installed in 1982, with a nominal heat input capacity of 5900 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack C.

Boiler No. 5 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (f) A coal transfer system, with a nominal throughput of 6,000 tons of coal per hour, consisting of the following equipment:
- (1) Two (2) railcar unloading stations, each with a drop point to a hopper identified as DP-5 and DP-25, with the drop point controlled by a partial enclosure, and exhausting to the ambient air.
 - (2) Two (2) active piles, each with a drop point to a hopper identified as DP-1 and DP-16, with each drop point enclosed and exhausting to the ambient air.
 - (3) Three (3) storage piles, having an estimated combined storage capacity including the active piles of 4,000,000 tons, with fugitive emissions controlled by watering trucks.
 - (4) Four (4) enclosed hoppers, each with a drop point to conveyors identified as DP-2, DP-6, DP-17 and DP-26, with each drop point enclosed and exhausting to the ambient air.
 - (5) An enclosed conveyor system, with 18 drop points identified as DP-3, DP-4, DP-7 through DP-15, and DP-18 through DP-24, with each drop point enclosed, excluding the two (2) active pile conveyors which have the drop points (DP-18 and DP-22) controlled by telescopic chutes, and exhausting to the ambient air.

- (6) Five (5) enclosed coal bunkers, each with a nominal capacity of 15,000 tons of coal. Bunkers are loaded via a conveyor tripper system with a total capacity of 3,000 tons per hour to the units 1 and 2 bunkers, and 3,000 tons per hour to the units 3, 4 and 5 bunkers. Particulate matter generated from loading bunkers is controlled with a baghouse, and exhausts to the ambient air.
- (g) A limestone processing system, consisting of the following equipment:
- (1) One (1) unloading station for trucks or railcar, with a drop point to a hopper identified as LSDP-1 with a nominal throughput of 2,500 tons of limestone per hour, with the drop point controlled by a partial enclosure, and exhausting to the ambient air.
 - (2) Two (2) enclosed hoppers, each with a drop point to conveyors identified as LSDP-2 and LSDP-5 with a nominal throughput of 200 tons of limestone per hour, with each drop point enclosed.
 - (3) One (1) storage pile, with a nominal storage capacity of 50,000 tons, with a drop point to a hopper identified as LSDP-4, with the drop point enclosed and exhausting to the ambient air.
 - (4) An enclosed conveyor system, with four (4) drop points identified as LSDP-3 and LSDP-8 through LSDP-10, with each drop point enclosed.
 - (5) One (1) enclosed hammermill, with a drop point to a conveyor identified as LSDP-6, with the drop point enclosed.
 - (6) Two (2) day bins for temporary storage of limestone, with a nominal loading capacity of 150 tons per hour, with dust from loading the bins controlled by bin vent filters, and exhausting to the ambient air.
- (h) Limestone Handling (TP-1 to TP-5, TP-10 to TP-17, F-6 and F-9), with maximum capacity of 2,500 tons per hour:
- (1) Transfer of limestone from railcar or truck to the limestone hopper, with fogging type dust suppression as particulate control.
 - (2) Enclosed transfer of limestone from unloading hoppers to belt feeders.
 - (3) Enclosed transfer of limestone from belt feeders to conveyors.
 - (4) Telescoping chute transfer of limestone from conveyor to lime storage stockout pile.
 - (5) Enclosed transfer of limestone from the reclaim hoppers to belt feeders, with fogging type dust suppression as particulate control.
 - (6) Enclosed transfer of limestone from conveyor to conveyor, with fogging type dust suppression as particulate control.
 - (7) Transfer of limestone from conveyor to day bin, with surge-bin filter as particulate control.
 - (8) Enclosed transfer of limestone from conveyor fixed hopper to conveyor with fogging type dust suppression as particulate control.

- (9) Transfer of limestone from conveyor fixed tripper to day bin, with surge-bin filter as particulate control.
- (10) Limestone storage piles, with watering type dust suppression as fugitive dust control.
- (i) Gypsum Handling (TP-26 to TP-35, TP-38, and TP-39), with maximum capacity of 300 tons per hour:
 - (1) Enclosed transfer of gypsum from belt feeders to conveyors.
 - (2) Transfer of gypsum from conveyors to stockout piles.
 - (3) Partially enclosed transfer of gypsum from conveyor to radial stacker conveyor.
 - (4) Transfer of gypsum from radial stacker conveyor to stockout pile.
 - (5) Stockout piles.

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) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.[326 IAC 6-3-2]
- (b) Conveyors as follows: [326 IAC 6-3]
 - (1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;
 - (2) Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983;
 - (3) Underground conveyors.
- (c) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6-3]

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); and
- (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, T051-7175-00013, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 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.4 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.5 Severability [326 IAC 2-7-5(5)]

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

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

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

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

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

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

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

- (b) One (1) certification shall be included, using the attached Certification Form, or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) The "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), by job title or classification, 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 submittal of the PMP and the PMP extension notification 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 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 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 T051-7175-00013 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 permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

B.14 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.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 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.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require 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.17 Source Modification [326 IAC 1-2-42][326 IAC 2-7-10.5][326 IAC 2-2-2][326 IAC 2-3-2]

- (a) The Permittee shall obtain approval as required by 326 IAC 2-7-10.5 from the IDEM, OAQ prior to making any modification to the source. Pursuant to 326 IAC 1-2-42, "Modification" means one (1) or more of the following activities at an existing source:
- (1) A physical change or change in the method of operation of any existing emissions unit that increases the potential to emit any regulated pollutant that could be emitted from the emissions unit, or that results in emissions of any regulated pollutant not previously emitted.
 - (2) Construction of one (1) or more new emissions units that have the potential to emit regulated air pollutants.
 - (3) Reconstruction of one (1) or more existing emission units that increases the potential to emit of any regulated air pollutant.
- (b) Any application requesting a source modification 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).
- (c) The Permittee shall also comply with the applicable provisions of 326 IAC 2-7-11 (Administrative Permit Amendments) or 326 IAC 2-7-12 (Permit Modification) prior to operating the approved modification.
- (d) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

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 emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

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

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

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

- (c) Emission Trades [326 IAC 2-7-20(c)]

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

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

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

Indiana Department of Environmental Management
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.23 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

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

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

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.

B.25 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.

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.

326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

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

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

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 Motor Vehicle Fugitive Dust Sources [326 IAC 6-4-4]

Pursuant to 326 IAC 6-4-4, no vehicle shall be driven or moved on any public street, road, alley, highway, or other thoroughfare, unless such vehicle is so constructed as to prevent its contents from dripping, sifting, leaking, or otherwise escaping there from so as to create conditions which result in fugitive dust. This section applies only to the cargo any vehicle may be conveying and mud tracked by the vehicle.

C.7 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.8 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

C.9 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 Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 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.11 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. 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.12 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

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

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

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, 40 CFR 75, or other approved methods as specified in this permit.

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

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

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

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

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on February 12, 1980. The plans (ERPs) were approved on March 19, 1980.
- (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.16 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]

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

C.17 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

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

- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

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

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

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

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

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

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

The statement must be submitted to:

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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 (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) 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) in 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 (c)(2) and (3) 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 of report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, 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 (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit other than 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) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and
- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

The report for project at an existing emissions unit other than 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 (c)(2) and (3) in Section C - General Record Keeping Requirements.
- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
- (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

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

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

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- (d) Pursuant to 40 CFR 82, Subpart E (The Labeling of Products Using Ozone-Depleting Substances), all containers in which a Class I or Class II substance is stored or transported and all products containing a Class I substance shall be labeled as required under 40 CFR Part 82.

Ambient Monitoring Requirements [326 IAC 7-3]

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 1 is anticipated to begin operation in October 2007.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

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

D.1.1 Particulate Emission Limitations [326 IAC 2-2]

Pursuant to PSD permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions from the Boiler No. 1 stack shall not exceed 0.12 pound per million Btu heat input (lb/MMBtu).

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

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

- (a) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

- (b) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive).
- (c) Permittee is also allowed one start up and one shut down per calendar year as follows:
- (i) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.
- (ii) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).
- (d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging period in any sixty (60) minute period.

The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-4-12.1] and Pollution Control Project [326 IAC 2-2.3]
[326 IAC 2-3.3]

- (a) Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler No. 1 shall not exceed 3.19 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average.
- (b) Pursuant to 326 IAC 2-2.3 and 326 IAC 2-3.3, the installation and operation of the flue gas desulfurization (FGD) system for Boiler No. 1 and the associated limestone and gypsum handling equipment is considered a pollution control project.
- (c) Pursuant to 326 IAC 2-2.3 and 326 IAC 2-3.3, upon initial start up of the flue gas desulfurization (FGD) system, the sulfur dioxide (SO₂) emissions from Boiler No. 1 shall not exceed 1.0 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average.

D.1.4 Operation Standards [326 IAC 2-1.1-5(a)(4)]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

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

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within the two (2) calendar years following the most recent stack test, compliance with the PM limitation in Condition D.1.1 - Particulate Emissions Limitations, shall be determined by a performance stack test conducted utilizing methods as approved by the Commissioner.

This test shall be repeated at least once every two (2) calendar years following this valid compliance demonstration.

Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.1.7 Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 1 is in operation and combusting any amount of solid fuel or any combination of solid fuel and other fuels.
- (b) Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.

D.1.8 Continuous Emissions Monitoring [326 IAC 3-5]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), continuous emission monitoring systems shall be calibrated, maintained, and operated for measuring opacity, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), commencing with operation of the flue gas desulfurization (FGD) system, a continuous monitoring system for the measurement of sulfur dioxide (SO₂) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

D.1.9 Sulfur Dioxide Emissions [326 IAC 7-2][326 IAC 7-4-12.1][326 IAC 2-7-5(3)(A)][326 IAC 2-7-6]

Without the flue gas desulfurization (FGD) system:

- (a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide (SO₂) emissions do not exceed the equivalent of 3.19 pounds per MMBtu using a thirty (30) day rolling weighted average.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:
 - (1) Coal sampling shall be performed using the methods specified in 326 IAC 3-7-2(a), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e); or
 - (2) Pursuant to 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring.
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

With the flue gas desulfurization (FGD) system:

- (d) Pursuant to 326 IAC 2-7-5(3)(A) and 326 IAC 2-7-6, the Permittee shall demonstrate that the sulfur dioxide (SO₂) emissions do not exceed the equivalent of 1.0 pounds per MMBtu using a thirty (30) day rolling weighted average.
- (e) Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using SO₂ continuous emission monitoring system (CEMS) data.

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

D.1.10 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.1.11 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).

Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The requirements of (a) and (b), do not apply to Boiler No. 1 during startup and shutdown of Boiler No. 1 and do not apply when Boiler No. 1 is being controlled by the flue gas desulfurization (FGD) system.

D.1.12 SO₂ Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)][326 IAC 2-7-5(1)]

At any time the flue gas desulfurization (FGD) system is operating, if the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

D.1.13 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Conditions D.1.1 - Particulate Emission Limitations, D.1.2 - Temporary Alternative Opacity Limitations, D.1.8 - Continuous Emissions Monitoring, D.1.10 - Transformer-Rectifier (T-R) Sets, and D.1.11 - Opacity readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.1 - Particulate Emission Limitations and D.1.2 - Temporary Alternative Opacity Limitations.

- (1) Data and results from the most recent stack test.
- (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.

- (3) The results of all Method 9 visible emission readings taken during any periods of COM downtime.
- (4) All ESP parametric monitoring readings.
- (b) With the flue gas desulfurization (FGD) system:

To document compliance with Conditions D.1.3 - Sulfur Dioxide (SO₂) and Pollution Control Project, D.1.9 - Sulfur Dioxide Emissions, and D.1.7(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

Without the FGD:

The Permittee shall maintain all fuel sampling and analysis data, pursuant to 326 IAC 7-2 and maintain actual fuel usage since last compliance determination period.
- (c) Prior to the initial start-up of the FGD:

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.14 Reporting Requirements

- (a) A quarterly report of opacity exceedances shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) With the flue gas desulfurization (FGD) system:

A quarterly report of the SO₂ emissions exceedances in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Without the flue gas desulfurization (FGD) system:

A quarterly report of the thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per million Btus, and records of the daily average coal sulfur content, coal heat content, weighing factor, and daily average sulfur dioxide emission rate in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. [326 IAC 7-2-1(c)(1)]

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

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

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

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

SECTION D.2

FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 2 is anticipated to begin operation in June 2007.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

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

D.2.1 Particulate Emission Limitations [326 IAC 2-2]

Pursuant to PSD permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions from the Boiler No. 2 stack shall not exceed 0.12 pound per million Btu heat input (lb/MMBtu).

D.2.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (a) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

- (b) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive).
- (c) Permittee is also allowed one start up and one shut down per calendar year as follows:
- (i) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.
- (ii) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).
- (d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging period in any sixty (60) minute period.

The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

D.2.3 Sulfur Dioxide (SO₂) [326 IAC 7-4-12.1] and Pollution Control Project [326 IAC 2-2.3]
[326 IAC 2-3.3]

- (a) Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler No. 2 shall not exceed 3.19 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average.
- (b) Pursuant to 326 IAC 2-2.3 and 326 IAC 2-3.3, the installation and operation of the flue gas desulfurization (FGD) system for Boiler No. 2 and the associated limestone and gypsum handling equipment is considered a pollution control project.
- (c) Pursuant to 326 IAC 2-2.3 and 326 IAC 2-3.3, upon initial start up of the flue gas desulfurization (FGD) system, the sulfur dioxide (SO₂) emissions from Boiler No. 2 shall not exceed 1.0 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average.

D.2.4 Operation Standards [326 IAC 2-1.1-5(a)(4)]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

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

Compliance Determination Requirements

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

Within the two (2) calendar years following the most recent stack test, compliance with the PM limitation in Condition D.2.1 - Particulate Emissions Limitations, shall be determined by a performance stack test conducted utilizing methods as approved by the Commissioner.

This test shall be repeated at least once every two (2) calendar years following this valid compliance demonstration.

Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.2.7 Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 2 is in operation and combusting any amount of solid fuel or any combination of solid fuel and other fuels.
- (b) Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.

D.2.8 Continuous Emissions Monitoring [326 IAC 3-5]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), continuous emission monitoring systems shall be calibrated, maintained, and operated for measuring opacity, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), commencing with operation of the flue gas desulfurization (FGD) system, a continuous monitoring system for the measurement of sulfur dioxide (SO₂) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

D.2.9 Sulfur Dioxide Emissions [326 IAC 7-2][326 IAC 7-4-12.1][326 IAC 2-7-5(3)(A)][326 IAC 2-7-6]

Without the flue gas desulfurization (FGD) system:

- (a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide (SO₂) emissions do not exceed the equivalent of 3.19 pounds per MMBtu using a thirty (30) day rolling weighted average.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:
 - (1) Coal sampling shall be performed using the methods specified in 326 IAC 3-7-2(a), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e); or
 - (2) Pursuant to 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring.
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

With the flue gas desulfurization (FGD) system:

- (d) Pursuant to 326 IAC 2-7-5(3)(A) and 326 IAC 2-7-6, the Permittee shall demonstrate that the sulfur dioxide (SO₂) emissions do not exceed the equivalent of 1.0 pounds per MMBtu using a thirty (30) day rolling weighted average.
- (e) Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using SO₂ continuous emission monitoring system (CEMS) data.

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

D.2.10 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

- (a) Appropriate response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).

Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The requirements of (a) and (b), do not apply to Boiler No. 2 during startup and shutdown of Boiler No. 2 and do not apply when Boiler No. 2 is being controlled by the flue gas desulfurization (FGD) system.

D.2.12 SO₂ Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)][326 IAC 2-7-5(1)]

At any time the flue gas desulfurization (FGD) system is operating, if the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

D.2.13 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Conditions D.2.1 - Particulate Emissions Limitations, D.2.2 - Temporary Alternative Opacity Limitations, D.2.8 - Continuous Emissions Monitoring, D.2.10 - Transformer-Rectifier (T-R) Sets, and D.2.11 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.2.1 - Particulate Emissions Limitations, and D.2.2 - Temporary Alternative Opacity Limitations.

- (1) Data and results from the most recent stack test.
- (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.

- (3) The results of all Method 9 visible emission readings taken during any periods of COM downtime.
- (4) All ESP parametric monitoring readings.
- (b) With the flue gas desulfurization (FGD) system:

To document compliance with Conditions D.2.3 - Sulfur Dioxide (SO₂) and Pollution Control Project, D.2.9 - Sulfur Dioxide Emissions, and D.2.7(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

Without the FGD:

The Permittee shall maintain all fuel sampling and analysis data, pursuant to 326 IAC 7-2 and maintain actual fuel usage since last compliance determination period.
- (c) Prior to the initial start-up of the FGD:

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.14 Reporting Requirements

- (a) A quarterly report of opacity exceedances shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) With the flue gas desulfurization (FGD) system:

A quarterly report of the SO₂ emissions exceedances in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Without the flue gas desulfurization (FGD) system:

A quarterly report of the thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per million Btus, and records of the daily average coal sulfur content, coal heat content, weighing factor, and daily average sulfur dioxide emission rate in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. [326 IAC 7-2-1(c)(1)]

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

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

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

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

SECTION D.3

FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a flue gas conditioning system and an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions and exhausting to a new stack, identified as Stack 3.

This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

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

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

Pursuant to PSD permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions from the Boiler No. 3 stack shall not exceed 0.12 pound per million Btu heat input (lb/MMBtu).

D.3.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (a) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

Operation of the electrostatic precipitator is not required during these times.
- (b) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive).
- (c) Permittee is also allowed one start up and one shut down per calendar year as follows:
 - (i) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.
 - (ii) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).
- (d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging period in any sixty (60) minute period.

The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

D.3.3 Sulfur Dioxide (SO₂) [326 IAC 7-4-12.1] and Pollution Control Project [326 IAC 2-2.3]
[326 IAC 2-3.3]

- (a) Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler No. 3 shall not exceed 3.19 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average.
- (b) Pursuant to 326 IAC 2-2.3 and 326 IAC 2-3.3, the installation and operation of the flue gas desulfurization (FGD) system for Boiler No. 3 and the associated limestone and gypsum handling equipment is considered a pollution control project.
- (c) Pursuant to 326 IAC 2-2.3 and 326 IAC 2-3.3, upon initial start up of the flue gas desulfurization (FGD) system, the sulfur dioxide (SO₂) emissions from Boiler No. 3 shall not exceed 1.5 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average.

D.3.4 Operation Standards [326 IAC 2-1.1-5(a)(4)]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

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

Compliance Determination Requirements

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

Within the two (2) calendar years following the most recent stack test, compliance with the PM limitation in Condition D.3.1 - Particulate Emissions Limitation, shall be determined by a performance stack test conducted utilizing methods as approved by the Commissioner.

This test shall be repeated at least once every two (2) calendar years following this valid compliance demonstration.

Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.3.7 Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 3 is in operation and combusting any amount of solid fuel or any combination of solid fuel and other fuels.
- (b) Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.

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

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), a continuous monitoring system for the measurement of opacity, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.
- (b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), commencing with operation of the flue gas desulfurization unit (FGD), a continuous monitoring system for the measurement of sulfur dioxide (SO₂) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

D.3.9 Sulfur Dioxide Emissions [326 IAC 7-2][326 IAC 7-4-12.1][326 IAC 2-7-5(3)(A)][326 IAC 2-7-6]

Without the flue gas desulfurization (FGD) system:

- (a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide (SO₂) emissions do not exceed the equivalent of 3.19 pounds per MMBtu using a thirty (30) day rolling weighted average.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:
 - (1) Coal sampling shall be performed using the methods specified in 326 IAC 3-7-2(a), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e); or
 - (2) Pursuant to 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring.
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

With the flue gas desulfurization (FGD) system:

- (d) Pursuant to 326 IAC 2-7-5(3)(A) and 326 IAC 2-7-6, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the equivalent of 1.5 pounds per MMBtu using a thirty (30) day rolling weighted average.
- (e) Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using continuous SO₂ emission monitoring system (CEMS) data.

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

D.3.10 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.3.11 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).

Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The requirements of (a) and (b), do not apply to Boiler No. 3 during startup and shutdown of Boiler No. 3 and do not apply when Boiler No. 3 is being controlled by the flue gas desulfurization (FGD) system.

D.3.12 SO₂ Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)][326 IAC 2-7-5(1)]

At any time the flue gas desulfurization (FGD) system is operating, if the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

D.3.13 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Conditions D.3.1 - Particulate Emissions Limitation, D.3.2 - Temporary Alternative Opacity Limitations, D.3.8 - Continuous Emissions Monitoring, D.3.10 - Transformer-Rectifier (T-R) Sets, and D.3.11 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.3.1- Particulate Emissions Limitation, and D.3.2 - Temporary Alternative Opacity Limitations.

- (1) Data and results from the most recent stack test.
- (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.

- (3) The results of all Method 9 visible emission readings taken during any periods of COM downtime.
- (4) All ESP parametric monitoring readings.
- (b) With the flue gas desulfurization (FGD) system:

To document compliance with Conditions D.3.3 - Sulfur Dioxide (SO₂) and Pollution Control Project, D.3.9 - Sulfur Dioxide Emissions, and D.3.7(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

Without the FGD:

The Permittee shall maintain all fuel sampling and analysis data, pursuant to 326 IAC 7-2 and maintain actual fuel usage since last compliance determination period.
- (c) Prior to the initial start-up of the FGD:

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.14 Reporting Requirements

- (a) A quarterly report of opacity exceedances shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) With the flue gas desulfurization (FGD) system:

A quarterly report of the SO₂ emissions exceedances in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.
- (c) Without the flue gas desulfurization (FGD) system:

A quarterly report of the thirty (30) day rolling weighted average sulfur dioxide emission rate in pounds per million Btus, and records of the daily average coal sulfur content, coal heat content, weighing factor, and daily average sulfur dioxide emission rate in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. [326 IAC 7-2-1(c)(1)]

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

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

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

SECTION D.4

FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D.

Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

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

D.4.1 Particulate Emission Limitations [326 IAC 2-2]

Pursuant to PSD permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions from the Boiler No. 4 stack shall not exceed 0.12 pound per million Btu heat input (lb/MMBtu).

D.4.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (a) During boiler startups an exemption from the 40% opacity limit is allowed for up to fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive or until the flue gas temperature entering the electrostatic precipitator reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

Operation of the electrostatic precipitator is not required during these times.
- (b) During boiler shutdowns, an exemption from the 40% opacity limitation established in 326 IAC 5-1-2 is allowed for a period not to exceed forty (40) six (6)-minute averaging periods, consecutive or non-consecutive.
- (c) Permittee is also allowed one start up and one shut down per calendar year as follows:
 - (i) During boiler startups an exemption from the 40% opacity limit is allowed for up to seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature entering the electrostatic precipitator reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.
 - (ii) During boiler shutdowns, an exemption from the 40% opacity limitation established in 326 IAC 5-1-2 is allowed for a period not to exceed five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).
- (d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging period in any sixty (60) minute period.

The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

D.4.3 Sulfur Dioxide (SO₂) [326 IAC 7-4-12.1]

Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler No. 4 stack shall not exceed 0.60 pounds per million Btu (lbs/MMBtu) based on a thirty (30) day rolling weighted average and operate an FGD system.

D.4.4 Operation Standards [326 IAC 2-1.1-5(a)(4)]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

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

Compliance Determination Requirements

D.4.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within the two (2) calendar years following the most recent stack test, compliance with the PM limitation in Condition D.4.1 - Particulate Emissions Limitations, shall be determined by a performance stack test conducted utilizing methods as approved by the Commissioner.

This test shall be repeated at least once every two (2) calendar years following this valid compliance demonstration.

Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.4.7 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 4 is in operation and combusting any amount of solid fuel or any combination of solid fuel and other fuels.

D.4.8 Flue Gas Desulfurization (FGD) System [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.

D.4.9 Continuous Emissions Monitoring [326 IAC 3-5]

Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), continuous emission monitoring systems shall be calibrated, maintained, and operated for measuring opacity and SO₂, which meet all applicable performance specifications of 326 IAC 3-5-2.

D.4.10 Sulfur Dioxide Emissions [326 IAC 2-7-5(3)(A)][326 IAC 2-7-6][326 IAC 3-5]

Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions from Unit 4 does not exceed the equivalents of the limits specified in Condition D.4.3 - Sulfur Dioxide (SO₂), using a thirty (30) day rolling weighted average.

Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using CEMS data.

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

D.4.11 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.4.12 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).

Examples of expected response steps include, but are not limited to, boiler loads being reduced, adjustment of flue gas conditioning rate, and ESP T-R sets being returned to service.

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The requirements of (a) and (b), do not apply to Boiler No. 4 during startup and shutdown of Boiler No. 4 and do not apply when Boiler No. 4 is being controlled by the flue gas desulfurization (FGD) system.

D.4.13 SO₂ Monitor Downtime [326 IAC 2-7-6][326 IAC 2-7-5(1)]

Whenever the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) system continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) system parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

D.4.14 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Conditions D.4.1 - Particulate Emissions Limitation, D.4.2 - Temporary Alternative Opacity Limitations, D.4.9 - Continuous Emissions Monitoring, D.4.11 - Transformer-Rectifier (T-R) Sets, and D.4.12 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.4.1 - Particulate Emissions Limitation, and D.4.2 - Temporary Alternative Opacity Limitations.

- (1) Data and results from the most recent stack test.
 - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.
 - (3) The results of all Method 9 visible emission readings taken during any periods of COM downtime.
 - (4) All ESP parametric monitoring readings.
- (b) To document compliance with SO₂ Conditions D.4.3 - Sulfur Dioxide (SO₂), D.4.9 - Continuous Emissions Monitoring, D.4.10 - Sulfur Dioxide Emissions, D.4.8 - Flue Gas Desulfurization (FGD) System, and D.4.13 - SO₂ Monitor Downtime, the Permittee shall maintain records in accordance with (1) through (3) below.

Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.4.3 - Sulfur Dioxide (SO₂), and D.4.10 - Sulfur Dioxide Emissions. The Permittee shall maintain records in accordance with (2) and (3) below during SO₂ CEM system downtime if a backup CEM is not used.

- (1) All SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g),
 - (2) All flue gas desulfurization (FGD) system parametric monitoring readings taken during any periods of CEM downtime, in accordance with Condition D.4.13 - SO₂ Monitor Downtime.
 - (3) Actual fuel usage during each SO₂ CEM downtime.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.15 Reporting Requirements

- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Condition D.4.2 - Temporary Alternative Opacity Limitations shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

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

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

- (4) Reasons for each downtime.
- (5) Nature of system repairs and adjustments.

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

SECTION D.5

FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 5, installed in 1982, with a nominal heat input capacity of 5900 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack C.

Boiler No. 5 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

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

D.5.1 New Source Performance Standard (NSPS) [326 IAC 12][40 CFR 60, Subpart D][326 IAC 2-2]

Pursuant to 326 IAC 12, 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971), and PSD permit PSD (26) 1215, issued March 17, 1978, emissions from Boiler No. 5 shall not exceed the following:

- (a) One-tenth (0.10) pound PM per million Btu (MMBtu) heat input. [40 CFR 60.42(a)(1)]
- (b) Twenty percent (20%) opacity except for one six-minute period per hour of not more than twenty-seven percent (27%) opacity [40 CFR 60.42(a)(2)]. Pursuant to 40 CFR 60.11(c), this opacity standard is not applicable during periods of startup, shutdown, or malfunction.
- (c) One and two-tenths (1.2) pound SO₂ per million Btu (MMBtu) heat input. [40 CFR 60.43(a)(2)]
- (d) Seven-tenths (0.70) pound NO_x per million Btu (MMBtu) heat input. [40 CFR 60.44(a)(3)]

D.5.2 Particulate [326 IAC 2-2][40 CFR 52.21][Construction Permit PSD (26) 1215]

Pursuant to Construction Permit PSD (26) 1215 issued on March 17, 1978, 326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration), the PM emissions from the Boiler No. 5 stack C shall not exceed one-tenth (0.10) pound PM per million Btu (MMBtu) heat input.

D.5.3 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (a) When building a new fire in a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

- (b) When shutting down a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive).

- (c) Permittee is also allowed one start up and one shut down per calendar year as follows:
- (i) When building a new fire in a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.
 - (ii) When shutting down a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).
- (d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging period in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

D.5.4 Sulfur Dioxide (SO₂) [326 IAC 7-4-12.1]

Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler No. 5 stack shall not exceed 1.10 pounds per million Btu (lbs/MMBtu) based on a twenty-four (24) hour average and operation of an FGD system.

D.5.5 Operation Standards [326 IAC 2-1.1-5(a)(4)]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

D.5.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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

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

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

Compliance Determination Requirements

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

Within the two (2) calendar years following the most recent stack test, compliance with the PM limitation in Conditions D.5.1 - New Source Performance Standard (NSPS), and D.5.2 - Particulate, shall be determined by a performance stack test conducted utilizing methods as approved by the Commissioner.

This test shall be repeated at least once every two (2) calendar years following this valid compliance demonstration.

Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.5.9 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 5 is in operation and combusting any amount of solid fuel or any combination of solid fuel and other fuels.

D.5.10 Flue Gas Desulfurization (FGD) System [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.

D.5.11 Continuous Emissions Monitoring [326 IAC 3-5][40 CFR 60, Subpart D]

Pursuant to 326 IAC 3-5 and 40 CFR 60.40, Subpart D, continuous monitoring systems for Boiler No. 5 shall be calibrated, maintained, and operated for measuring opacity, SO₂, NO_x, and either CO₂ or O₂, which meets the performance specifications of 326 IAC 3-5-2 and 40 CFR 60.45.

D.5.12 Sulfur Dioxide Emissions [326 IAC 2-7-5(3)(A)][326 IAC 2-7-6][326 IAC 3-5]

Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions from Unit 5 does not exceed the limits specified in Conditions D.5.1(c) and D.5.4 - Sulfur Dioxide (SO₂), using a thirty (30) day rolling weighted average.

Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using CEMS data.

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

D.5.13 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the percentage of T-R sets in service falls below ninety percent (90%). T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, and Reports, shall be considered a deviation from this permit.

D.5.14 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, adjustment of flue gas conditioning rate, and ESP T-R sets being returned to service.
- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The requirements of (a) and (b), do not apply to Boiler No. 5 during startup and shutdown of Boiler No. 5 and do not apply when Boiler No. 5 is being controlled by the flue gas desulfurization (FGD) system.

D.5.15 SO₂ Monitor Downtime [326 IAC 2-7-6][326 IAC 2-7-5(1)]

Whenever the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) system continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) system parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

D.5.16 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Conditions D.5.1- New Source Performance Standard (NSPS), D.5.2 - Particulate, D.5.3 - Temporary Alternative Opacity Limitations, D.5.11 - Continuous Emissions Monitoring, and D.5.13 - Transformer-Rectifier (T-R) Sets, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.5.1 - New Source Performance Standard (NSPS), D.5.2 - Particulate, and D.5.3 - Temporary Alternative Opacity Limitations.

- (1) Data and results from the most recent stack test.
 - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5 and 40 CFR 60.40 (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971).
 - (3) The results of all Method 9 visible emission readings taken during any periods of COM downtime.
 - (4) All ESP parametric monitoring readings.
- (b) To document compliance with Conditions D.5.1 - New Source Performance Standard (NSPS), D.5.4 - Sulfur Dioxide (SO₂), D.5.10 - Flue Gas Desulfurization (FGD) System, D.5.11 - Continuous Emissions Monitoring, D.5.12 - Sulfur Dioxide Emissions, and D.5.14 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.5.4 - Sulfur Dioxide (SO₂), and D.5.10 - Flue Gas Desulfurization (FGD) System. The Permittee shall maintain records in accordance with (2) and (3) below during SO₂ CEM system downtime if a backup CEM is not used.
- (1) All SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g) and 40 CFR 60.40 (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971), with calendar dates and beginning and ending times of any CEM downtime.
 - (2) All flue gas desulfurization (FGD) system parametric monitoring readings taken during any periods of CEM downtime, in accordance with Condition D.5.15 - SO₂ Monitor Downtime.

- (3) Actual fuel usage during each SO₂ CEM downtime.
- (c) Prior to the initial start-up of the FGD:
Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.5.17 Reporting Requirements

- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Conditions D.5.1(c) - New Source Performance Standard (NSPS), and D.5.4 - Sulfur Dioxide (SO₂), shall be submitted to the address listed in Section C - General Reporting Requirements within thirty (30) days after the end of the quarter being reported.

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

- (b) To document compliance with Condition D.5.1 - New Source Performance Standard (NSPS), and pursuant to 40 CFR 60.45(g), excess emissions and monitoring system performance (MSP) reports shall be submitted to the administrator semi-annually for each six month period in the calendar year.

All semiannual reports shall be postmarked by the 30th day following the end of each six-month period.

Each excess emission and MSP report shall include the information required in 40 CFR 60.7(c).

These reports shall be submitted to:

U.S. Environmental Protection Agency
Director, Air and Radiation Division
77 West Jackson Boulevard
Chicago, IL 60604-3590

and

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

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

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

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

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

SECTION D.6

FACILITY OPERATION CONDITIONS

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

A coal storage and handling system, with a nominal throughput of 6000 tons of coal per hour, consisting of the following equipment:

- (1) Two (2) railcar unloading stations, each with a drop point to a hopper identified as DP-5 and DP-25, with each drop point controlled by a partial enclosure, and exhausting to the ambient air.
- (2) Two (2) active piles, each with a drop point to a hopper identified as DP-1 and DP-16, with each drop point enclosed and exhausting to the ambient air.
- (3) Three (3) storage piles, having a combined storage capacity including the active piles of 4,000,000 tons, with fugitive emissions controlled by watering trucks.
- (4) Four (4) enclosed hoppers, each with a drop point to conveyors identified as DP-2, DP-6, DP-17 and DP-26, with each drop point enclosed and exhausting to the ambient air.
- (5) An enclosed conveyor system, with 18 drop points identified as DP-3, DP-4, DP-7 through DP-15, and DP-18 through DP-24, with each drop point enclosed excluding the two (2) active pile conveyors which have the drop points (DP-18 and DP-22) controlled by telescopic chutes, and exhausting to the ambient air.
- (6) Five (5) enclosed coal bunkers, each with a nominal maximum capacity of 15,000 tons of coal. Bunkers are loaded via a conveyor tripper system with a total capacity of 3,000 tons per hour to the units 1 and 2 bunkers, and 3,000 tons per hour to the units 3, 4 and 5 bunkers.

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

D.6.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the coal storage and handling drop points and coal bunkers shall not exceed 103.2 pounds per hour when operating at a process weight of 6000 tons per hour. This is determined by the following equation:

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 equation:

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

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed 103.2 pounds per hour, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the watering system and the telescopic chutes.

Compliance Determination Requirements

D.6.3 Particulate Control [326 IAC 2-7-6(6)]

Telescoping chutes shall be kept within a few feet of the top of the coal piles at all times drop points DP-18 and DP-22 are in operation.

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

D.6.4 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of the transfer points shall be performed once per week during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

If abnormal emissions are observed at the transfer points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (b) Visible emission notations of the coal unloading station(s) doorways and drop points shall be performed once per week during normal daylight operations. A trained employee shall record whether any emissions are observed.

If abnormal emissions are observed from the coal unloading station doorways and drop points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

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

D.6.5 Record Keeping Requirements

To document compliance with Section C - Opacity, Section C -Fugitive Dust Emissions, and Condition D.6.4 - Visible Emissions Notations, the Permittee shall maintain records of the visible emission notations of the transfer points, railcar unloading stations and all response steps taken and the outcome for each. The Permittee shall include in its records 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).

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

SECTION D.7

FACILITY OPERATION CONDITIONS

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

A limestone storage and handling system, consisting of the following equipment:

- (1) One (1) unloading station for trucks or railcar, with a drop point to a hopper identified as LSDP-1, with a nominal throughput of 2,500 tons per hour, with the drop point controlled by a partial enclosure, and exhausting to the ambient air.
- (2) Two (2) enclosed hoppers, each with a drop point to conveyors identified as LSDP-2 and LSDP-5, with a nominal throughput of 200 tons per hour, with each drop point enclosed and exhausting to the ambient air.
- (3) One (1) storage pile, with a nominal storage capacity of 50,000 tons, with a drop point to a hopper identified as LSDP-4, with the drop point enclosed and exhausting to the ambient air.
- (4) An enclosed conveyor system, with four (4) drop points identified as LSDP-3 and LSDP-8 through LSDP-10, with each drop point enclosed and exhausting to the ambient air.
- (5) One (1) enclosed ball mill, with a drop point to a conveyor identified as LSDP-6, with the drop point enclosed and exhausting to the ambient air.
- (6) Two (2) day bins for temporary storage of limestone, with a combined storage capacity of 13,000 tons, with dust from loading the bins controlled by bin vent filters, and exhausting to the ambient air.

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

- (1) Flyash handling facility and transport systems, wet flyash sluiced and conveyed to five (5) ash ponds, with a combined surface area of 435 acres.

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

D.7.1 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants [326 IAC 12][40 CFR 60, Subpart OOO]

- (a) Pursuant to 326 IAC 12 and 40 CFR 60, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), the Permittee shall not cause to be discharged into the atmosphere:
 - (1) From any transfer point on belt conveyors or from any other affected facility any stack emissions which:
 - (A) Contain particulate matter that exceeds 0.05 grains per dry standard cubic meter (g/dscm); and
 - (B) Exhibit greater than a seven percent (7%) opacity. [40 CFR 60.672(a)]
 - (2) From any transfer point on belt conveyors or from any other affected facility, any fugitive emissions which exhibit greater than ten percent (10%) opacity. [40 CFR 60.672(b)]
 - (3) From any crusher at which a capture system is not used, fugitive emissions which exhibit greater than fifteen percent (15%) opacity. [40 CFR 60.672(c)]

- (4) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in (a) and (b) of this condition, or the Permittee shall not cause to be discharged into the atmosphere:
 - (A) From any building enclosing any transfer point on a conveyor belt or any other affected facility, any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671. [40 CFR 60.672(e)]
 - (B) From any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility, emissions which exceed the stack emission limits in (a) of this condition.
- (5) From any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than seven percent (7%) opacity. Multiple storage bins with combined stack emissions shall comply with the emission limits in (a) of this condition.
- (6) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60.672.
- (b) When an owner or operator replaces an existing facility with a piece of equipment that is of larger size, as defined in 40 CFR 60.671, having the same function as the existing facility, or an owner or operator replaces all existing facilities in a production line with new facilities, then the replacement is subject to 40 CFR 60.672 (Standard for Particulate Matter), 40 CFR 60.674 (Monitoring of Operations), 40 CFR 60.675 (Test Methods and Procedures), and 40 CFR 60.676 (Reporting and Record keeping) of Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

D.7.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the storage and handling drop points and bunkers shall not exceed 61 pounds per hour when operating at a process weight of 250 tons per hour. This is determined by the following equation:

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 equation:

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

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed 61 pounds per hour, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

D.7.3 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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

D.7.4 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

Pursuant to 326 IAC 6-4-2:

- (a) Any ash storage pond area generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

- (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

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

Where

P = Percentage increase

R = Number of particles of fugitive dust measured at downward receptor site

U = Number of particles of fugitive dust measured at upwind or background site

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

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

Where

N = Fraction of fugitive dust that is respirable dust;

P_R = allowable percentage increase in dust concentration above background;
and

P = no value greater than sixty-seven percent (67%).

- (3) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (4) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.
- (b) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

All flyash ponds shall be covered with water at all times.

Compliance Determination Requirement

D.7.5 Particulate Control [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, to demonstrate compliance with 326 IAC 6-3-2:

The telescopic chute for all conveyors shall be kept within a few feet of the top of the limestone piles at all times the limestone handling system is in operation.

D.7.6 NSPS Compliance Provisions [40 CFR 60, Subpart OOO]

Compliance with the PM and opacity emission limitations in Condition D.7.1 - New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants, shall be determined by the methods and procedures specified in 40 CFR 60.675.

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

D.7.7 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

-
- (a) Visible emission notations of the transfer points and ball mill baghouse exhausts shall be performed once per week during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

If abnormal emissions are observed at any baghouse exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (b) Visible emission notations of the partially enclosed railcar limestone unloading station exhausts shall be performed once per week during normal daylight operations. A trained employee shall record whether any emissions are observed.

If any abnormal visible emissions of dust are observed exiting the limestone unloading station doors, 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) Visible emission notations of the ash storage pond area(s) shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (d) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (e) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (f) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

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

D.7.8 Record Keeping Requirements

To document compliance with Section C - Opacity and Condition D.7.8 - Visible Emissions Notations, the Permittee shall maintain records of the visible emission notations of the transfer points, limestone unloading station doors, fly ash storage pond area(s) and all response steps taken and the outcome for each. The Permittee shall include in its records 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).

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

SECTION D.8

FACILITY OPERATION CONDITIONS

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

The following insignificant activities:

- (1) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.

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

D.8.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the grinding and machining facilities shall not exceed 0.551 pounds per hour (lbs/hr) based on the following equation:

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

SECTION D.9

FACILITY OPERATION CONDITIONS

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

Limestone Handling (TP-1 to TP-5, TP-10 to TP-17, F-6 and F-9), with maximum capacity of 2,500 tons per hour:

- (1) Transfer of limestone from railcar or truck to the limestone hopper, with fogging type dust suppression as particulate control.
- (2) Enclosed transfer of limestone from unloading hoppers to belt feeders.
- (3) Enclosed transfer of limestone from belt feeders to conveyors.
- (4) Telescoping chute transfer of limestone from conveyor to lime storage stockout pile.
- (5) Enclosed transfer of limestone from the reclaim hoppers to belt feeders, with fogging type dust suppression as particulate control.
- (6) Enclosed transfer of limestone from conveyor to conveyor, with fogging type dust suppression as particulate control.
- (7) Transfer of limestone from conveyor to day bin, with surge-bin filter as particulate control.
- (8) Enclosed transfer of limestone from conveyor fixed hopper to conveyor with fogging type dust suppression as particulate control.
- (9) Transfer of limestone from conveyor fixed tripper to day bin, with surge-bin filter as particulate control.
- (10) Limestone storage piles, with watering type dust suppression as fugitive dust control.

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

D.9.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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

D.9.2 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants [326 IAC 12][40 CFR Part 60, Subpart OOO]

- (a) Pursuant to 326 IAC 12 and 40 CFR Part 60, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), the Permittee shall not cause to discharge into the atmosphere:
 - (1) From any transfer point on belt conveyors or from any other affected facility any stack emissions which:
 - (A) Contain particulate matter that exceeds 0.05 grains per dry standard cubic meter (g/dscm); and
 - (B) Exhibit greater than a seven percent (7%) opacity. [40 CFR 60.672(a)]

- (2) From any transfer point on belt conveyors or from any other affected facility, any fugitive emissions which exhibit greater than ten percent (10%) opacity. [40 CFR 60.672(b)]
 - (3) From any crusher at which a capture system is not used, fugitive emissions which exhibit greater than fifteen percent (15%) opacity. [40 CFR 60.672(c)]
 - (4) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in (a) and (b) of this condition, or the Permittee shall not cause to be discharged into the atmosphere:
 - (A) From any building enclosing any transfer point on a conveyor belt or any other affected facility, any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671. [40 CFR 60.672(e)]
 - (B) From any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility, emissions which exceed the stack emission limits in (a) of this condition.
 - (5) From any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than seven percent (7%) opacity. Multiple storage bins with combined stack emissions shall comply with the emission limits in (a) of this condition.
 - (6) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60.672.
- (b) When an owner or operator replaces an existing facility with a piece of equipment that is of larger size, as defined in 40 CFR 60.671, having the same function as the existing facility, or an owner or operator replaces all existing facilities in a production line with new facilities, then the replacement is subject to 40 CFR 60.672 (Standard for Particulate Matter), 40 CFR 60.674 (Monitoring of Operations), 40 CFR 60.675 (Test Methods and Procedures), and 40 CFR 60.676 (Reporting and Record keeping) of Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

D.9.3 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

- (a) Pursuant to 326 IAC 6-4-2, the Permittee shall be in violation of 326 IAC 6-4 if any of the following criteria are violated:
- (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

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

Where:

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

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

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

Where:

- N = Fraction of fugitive dust that is respirable dust;
P_R = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).
- (3) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (4) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section.

326 IAC 6-4-2(4) is not federally enforceable.

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

D.9.4 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

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

Compliance Determination Requirement

D.9.5 Particulate Control [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit:

- (a) The Permittee shall apply fogging type dust suppression when the following are in operation:
- transfers of limestone from railcar or truck to the limestone hopper,
 - transfers of limestone from conveyor to conveyor, and
 - transfers of limestone from conveyor fixed hopper to conveyor.
- (b) The Permittee shall conduct the transfers of limestone in enclosures when the following are in operation:
- from unloading hoppers to belt feeders,
 - from belt feeders to conveyors,
 - from the reclaim hoppers to belt feeders,
 - from conveyor to conveyor, and
 - from conveyor fixed hopper to conveyor.
- (c) The Permittee shall use surge-bin filters when the following are in operation:
- transfers of limestone from conveyor to day bin .
 - transfers of limestone from conveyor fixed tripper to day bin.
- (d) The Permittee shall use telescoping chute transfer of limestone from conveyor to lime storage stockout pile.

D.9.6 NSPS Test Methods and Procedures [40 CFR Part 60, Subpart 000]

Compliance with the PM and opacity emission limitations in Condition D.9.2 shall be determined by the methods and procedures specified in 40 CFR 60.675.

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

D.9.7 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

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

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

D.9.8 Record Keeping Requirements

- (a) The Permittee shall maintain records of the once per week visible emission notations of the limestone transfer points, and all response steps taken and the outcome for each and make such records available upon request to IDEM, OAQ, and the US EPA. The Permittee shall include in its records 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).
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.9.9 Reporting Requirements

The Permittee shall report the following at the appropriate times:

- (a) Commencement of construction date (no later than 30 days after such date) of the affected units. [40 CFR 60.7a(10)]
- (b) Actual start up date (within 15 days after such date) of the affected units. [40 CFR 60.7a(3)]

- (c) Date of performance testing (at least 30 days prior to such date).
- (d) Anticipated date for conducting opacity observations (no later than 15 days after such date). [40 CFR 60.7a(6)]

Reports are to be sent to:

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

The application and enforcement of these standards have been delegated to the IDEM, OAQ.
The requirements of 40 CFR Part 60 are federally enforceable.

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

SECTION D.10

FACILITY OPERATION CONDITIONS

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

Gypsum Handling (TP-26 to TP-35, TP-38, and TP-39), with maximum capacity of 300 tons per hour:

- (1) Enclosed transfer of gypsum from belt feeders to conveyors.
- (2) Transfer of gypsum from conveyors to stockout piles.
- (3) Partially enclosed transfer of gypsum from conveyor to radial stacker conveyor.
- (4) Transfer of gypsum from radial stacker conveyor to stockout pile.
- (5) Stockout piles.

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

D.10.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the gypsum handling operation shall not exceed 63 pounds per hour when operating at a process weight of 300 tons per hour. This is determined by the following equation:

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 equation:

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

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed the emission rate derived by the equation above, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

D.10.2 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

(a) Pursuant to 326 IAC 6-4-2, the Permittee shall be in violation of 326 IAC 6-4 if any of the following criteria are violated:

- (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

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

Where:

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

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

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

Where:

- N = Fraction of fugitive dust that is respirable dust;
P_R = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).
- (3) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (4) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section.

326 IAC 6-4-2(4) is not federally enforceable.

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

D.10.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

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

Compliance Determination Requirement

D.10.4 Particulate Control [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit:

- (a) The Permittee shall conduct the transfers of gypsum from belt feeders to conveyors in enclosures.
- (b) The Permittee shall conduct transfers of gypsum from conveyor to radial stacker conveyor in a partial enclosure.

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

D.10.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of the gypsum transfer points shall be performed once per week during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (f) If abnormal emissions are observed from the gypsum transfer points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.10.6 Record Keeping Requirements

- (a) The Permittee shall maintain records of the once per week visible emission notations of the gypsum transfer points, and all response steps taken and the outcome for each and make such records available upon request to IDEM, OAQ, and the US EPA. The Permittee shall include in its records 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).
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION E

TITLE IV ACID RAIN PROGRAM CONDITIONS

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

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 1 is anticipated to begin operation in October 2007.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 2 is anticipated to begin operation in June 2007.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a flue gas conditioning system and an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 3.

This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D.

Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

(e) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 5, installed in 1982, with a nominal heat input capacity of 5900 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack C.

Boiler No. 5 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

Acid Rain Program

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

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

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

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

- (a) No revision of this permit shall be required for increases in emissions that are authorized by allowances acquired under the Title IV Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.
- (b) No limit shall be placed on the number of allowances held by the Permittee.

The Permittee may not use allowances as a defense to noncompliance with any other applicable requirement.
- (c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.

SECTION F

SO₃ MITIGATION PLAN

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

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

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 1 is anticipated to begin operation in October 2007.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2.

This FGD system for Boiler No. 2 is anticipated to begin operation in June 2007.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a flue gas conditioning system and an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 3.

This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D.

Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

- (e) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 5, installed in 1982, with a nominal heat input capacity of 5900 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack C.

Boiler No. 5 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

F.1 SO₃ Mitigation System [326 IAC 2-2.3]

- (a) Pursuant to 326 IAC 2-2.3, the Permittee shall operate the SO₃ Mitigation System utilizing Sodium Bisulfite (SBS) or other mitigation reagents whenever a Selective Catalytic Reduction System (SCR) is in operation in conjunction with a Flue Gas Desulfurization System (FGD), except:
- (1) During SCR startups; or
 - (2) If the SO₃ mitigation system shuts down due to events beyond the reasonable control of the Permittee or there is need for emergency maintenance repairs.
- (b) If events described in Condition F.1(a)(1) and F.1(a)(2) occur, the Permittee can not start or restart the SO₃ mitigation system within one (1) hour.

The station personnel shall notify IDEM in accordance with the emergency notification provisions of 326 IAC 2-7-16(b) and if there is potential for plume touchdown in the opinion of station personnel and/or IDEM, the respective SCR shall be taken out of service.

F.2 SO₃ Testing Requirement

- (a) By July 1, 2005, the Permittee shall conduct a SO₃ emissions test in Boilers Nos. 4 and No. 5 stacks (Stack D and Stack C, respectively).
- (b) The Permittee shall report the results to IDEM within forty-five (45) days after completion of the SO₃ emissions test.

F.3 Minimum Injection Rate

- (a) The Permittee shall operate the SO₃ mitigation system when both the SCR and FGD are in service at a minimum injection rate of 0.9 molar ratio, including during any periods when mitigating a single duct or gas stream if demonstrated to be SCR neutral.
- (b) At all times when both the SCR and FGD are in service, except as described in Condition F.1(a)(1) and F.1(a)(2), a minimum of at least one (1) duct shall be treated for SO₃ mitigation.
- (c) Any change in the established minimum injection rate, the Permittee shall report such change with supporting information.

F.4 Plume Observations

The Permittee shall conduct and keep records of plume observations on Boilers Nos. 4 and No. 5 at least 3 times per day (morning, noon and late afternoon) beginning May 23, 2005 and continuing throughout and ending after the summer 2005 ozone season while the SCRs for Boilers Nos. 4 and No. 5 are in operation.

These observations will include plume behavior, ground temperature, humidity or dew point temperature, wind speed, and direction.

F.5 Plume Touchdown

In the event that a plume touchdown is observed, IDEM and the appropriate local authorities shall be immediately notified of this event and the respective SCR(s) causing such plume touchdown shall be removed from service.

The SCR shall remain out of service until the conditions or cause resulting in the plume touchdown subside or are resolved.

F.6 Onsite Meteorological Monitoring System

A real time display of the wind speed, wind direction, temperature and dew point from the onsite meteorological monitoring system shall be installed in the Boilers Nos. 4 and 5 control room by May 1, 2006.

F.7 Boilers Nos. 1, 2, and 3 FGD Systems

Within sixty (60) days after the Boiler No. 3 FGD commences operation in conjunction with operation of a SCR, the Permittee shall conduct a SO₃ emissions test in the Boiler No. 3 stack (Stack 3).

Such testing will determine the minimum SO₃ Mitigation System injection rates for Boilers Nos. 1, 2, and 3 when their respective FGD systems commence operation.

SECTION G Nitrogen Oxides Budget Trading Program - NO_x Budget Permit for NO_x Budget Units Under 326 IAC 10-4-1(a)

ORIS Code: 6113

NO_x Budget Source [326 IAC 2-7-5(15)]

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2. This FGD system for Boiler No. 1 is anticipated to begin operation in October 2007. Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).
- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 1-2. This FGD system for Boiler No. 2 is anticipated to begin operation in June 2007. Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).
- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a flue gas conditioning system and an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions and exhausting to a new stack, identified as Stack 3. This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006. Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).
- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D. Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).
- (e) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 5, installed in 1982, with a nominal heat input capacity of 5900 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack C. Boiler No. 5 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

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

G.1 Automatic Incorporation of Definitions [326 IAC 10-4-7(e)]

This NO_x budget permit is deemed to incorporate automatically the definitions of terms under 326 IAC 10-4-2.

G.2 Standard Permit Requirements [326 IAC 10-4-4(a)]

- (a) The Permittee shall operate each unit in compliance with this NO_x budget permit.
- (b) The NO_x budget units subject to this NO_x budget permit are: Boilers 1, 2, 3, 4, and 5.

G.3 Monitoring Requirements [326 IAC 10-4-4(b)]

- (a) The Permittee and, to the extent applicable, the NO_x authorized account representative of boilers 1 through 5 shall comply with the monitoring requirements of 40 CFR 75 and 326 IAC 10-4-12.
- (b) The emissions measurements recorded and reported in accordance with 40 CFR 75 and 326 IAC 10-4-12 shall be used to determine compliance by each unit with the NO_x budget emissions limitation under 326 IAC 10-4-4(c) and Condition G.4, Nitrogen Oxides Requirements.

G.4 Nitrogen Oxides Requirements [326 IAC 10-4-4(c)]

- (a) The Permittee shall hold NO_x allowances available for compliance deductions under 326 IAC 10-4-10(j), as of the NO_x allowance transfer deadline, in each boiler's compliance account and the overdraft account in an amount:
 - (1) Not less than the total NO_x emissions for the ozone control period from the boiler, as determined in accordance with 40 CFR 75 and 326 IAC 10-4-12;
 - (2) To account for excess emissions for a prior ozone control period under 326 IAC 10-4-10(k)(5); or
 - (3) To account for withdrawal from the NO_x budget trading program, or a change in regulatory status of a NO_x budget opt-in unit.
- (b) Each ton of NO_x emitted in excess of the NO_x budget emissions limitation shall constitute a separate violation of the Clean Air Act (CAA) and 326 IAC 10-4.
- (c) NO_x allowances shall be held in, deducted from, or transferred among NO_x allowance tracking system accounts in accordance with 326 IAC 10-4-9 through 11, 326 IAC 10-4-13, and 326 IAC 10-4-14.
- (d) A NO_x allowance shall not be deducted, in order to comply with the requirements under (a) above and 326 IAC 10-4-4(c)(1), for an ozone control period in a year prior to the year for which the NO_x allowance was allocated.
- (e) A NO_x allowance allocated under the NO_x budget trading program is a limited authorization to emit one (1) ton of NO_x in accordance with the NO_x budget trading program. No provision of the NO_x budget trading program, this permit application, the NO_x budget permit, or an exemption under 326 IAC 10-4-3 and no provision of law shall be construed to limit the authority of the U.S. EPA or IDEM, OAQ to terminate or limit the authorization.
- (f) A NO_x allowance allocated under the NO_x budget trading program does not constitute a property right.

- (g) Upon recordation by the U.S. EPA under 326 IAC 10-4-10, 326 IAC 10-4-11, or 326 IAC 10-4-13, every allocation, transfer, or deduction of a NO_x allowance to or from each boiler's compliance account or the overdraft account is deemed to amend automatically, and become a part of, this permit by operation of law without any further review.

G.5 Excess Emissions Requirements [326 IAC 10-4-4(d)]

The Permittee, for each boiler that has excess emissions in any ozone control period shall do the following:

- (a) Surrender the NO_x allowances required for deduction under 326 IAC 10-4-10(k)(5).
- (b) Pay any fine, penalty, or assessment or comply with any other remedy imposed under 326 IAC 10-4-10(k)(7).

G.6 Record Keeping Requirements [326 IAC 10-4-4(e)] [326 IAC 2-7-5(3)]

Unless otherwise provided, the Permittee shall keep, either on site at the source or at a central location within Indiana for unattended sources, each of the following documents for a period of five (5) years:

- (a) The account certificate of representation for the NO_x authorized account representative for the source and boilers 1 through 5 and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 326 IAC 10-4-6(h). The certificate and documents shall be retained either on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond the five (5) year period until the documents are superseded because of the submission of a new account certificate of representation changing the NO_x authorized account representative.
- (b) All emissions monitoring information, in accordance with 40 CFR 75 and 326 IAC 10-4-12, provided that to the extent that 40 CFR 75 and 326 IAC 10-4-12 provide for a three (3) year period for record keeping, the three (3) year period shall apply.
- (c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the NO_x budget trading program.
- (d) Copies of all documents used to complete a NO_x budget permit application and any other submission under the NO_x budget trading program or to demonstrate compliance with the requirements of the NO_x budget trading program.

This period may be extended for cause, at any time prior to the end of five (5) years, in writing by IDEM, OAQ or the U.S. EPA. Records retained at a central location within Indiana shall be available immediately at the location and submitted to IDEM, OAQ or U.S. EPA within three (3) business days following receipt of a written request. Nothing in 326 IAC 10-4-4(e) shall alter the record retention requirements for a source under 40 CFR 75. Unless otherwise provided, all records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

G.7 Reporting Requirements [326 IAC 10-4-4(e)]

- (a) The NO_x authorized account representative of each of boilers 1 through 5 shall submit the reports and compliance certifications required under the NO_x budget trading program, including those under 326 IAC 10-4-8, 326 IAC 10-4-12, or 326 IAC 10-4-13.

- (b) Pursuant to 326 IAC 10-4-4(e) and 326 IAC 10-4-6(e)(1), each submission shall include the following certification statement by the NO_x authorized account representative: "I am authorized to make this submission on behalf of the owners and operators of the NO_x budget sources or NO_x budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (c) Where 326 IAC 10-4 requires a submission to IDEM, OAQ, the NO_x authorized account representative shall submit required information to:
- Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (d) Where 326 IAC 10-4 requires a submission to U.S. EPA, the NO_x authorized account representative shall submit required information to:
- U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue, NW
Mail Code 6204N
Washington, DC 20460

G.8 Liability [326 IAC 10-4-4(f)]

The Permittee shall be liable as follows:

- (a) Any person who knowingly violates any requirement or prohibition of the NO_x budget trading program, a NO_x budget permit, or an exemption under 326 IAC 10-4-3 shall be subject to enforcement pursuant to applicable state or federal law.
- (b) Any person who knowingly makes a false material statement in any record, submission, or report under the NO_x budget trading program shall be subject to criminal enforcement pursuant to the applicable state or federal law.
- (c) No permit revision shall excuse any violation of the requirements of the NO_x budget trading program that occurs prior to the date that the revision takes effect.
- (d) Boilers 1 through 5 shall meet the requirements of the NO_x budget trading program.
- (e) Any provision of the NO_x budget trading program that applies to a NO_x budget source, including a provision applicable to the NO_x authorized account representative of a NO_x budget source, shall also apply to the owners and operators of the source and of the NO_x budget units at the source.

- (f) Any provision of the NO_x budget trading program that applies to boilers 1 through 5, including a provision applicable to the NO_x authorized account representative, shall also apply to the Permittee. Except with regard to the requirements applicable to units with a common stack under 40 CFR 75 and 326 IAC 10-4-12, the owners and operators and the NO_x authorized account representative of one (1) NO_x budget unit shall not be liable for any violation by any other NO_x budget unit of which they are not owners or operators or the NO_x authorized account representative and that is located at a source of which they are not owners or operators or the NO_x authorized account representative.

G.9 Effect on Other Authorities [326 IAC 10-4-4(g)]

No provision of the NO_x budget trading program, a NO_x budget permit application, this permit, or an exemption under 326 IAC 10-4-3 shall be construed as exempting or excluding the Permittee and, to the extent applicable, the NO_x authorized account representative from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the CAA.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Mailing Address: c/o Patrick Coughlin, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: T051-7175-00013

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Telephone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY, COMPLIANCE BRANCH
100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251
Phone: 317-233-0178 Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Mailing Address: c/o Patrick Coughlin, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: T051-7175-00013

This form consists of 2 pages

Page 1 of 2

| |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

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

Page 2 of 2 of Emergency Occurrence Report

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY, COMPLIANCE DATA SECTION
 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251**

**Part 70 Quarterly Report for Use When Combusting Coal
 (Prior to FGD Operation)**

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
 Source Address: 1097 N 950 W, Owensville, Indiana 47665
 Mailing Address: c/o Patrick Coughlin, 1000 East Main Street, Plainfield, Indiana 46168
 Part 70 Permit No.: T051-7175-00013
 Facility: Boilers No. 1, 2 and 3.
 Parameter: Sulfur Dioxide (SO₂) from coal combustion
 Limit: 3.19 pounds per million Btu heat input (Conditions D.1.3(a), D.2.3(a), and D.3.3(a))

FACILITY: _____ YEAR: _____

This form consists of 2 pages

Page 1 of 2

| Day | Daily Average Coal Sulfur Content (%) | Daily Average Coal Heat Content (MMBtu/lb) | Coal Consumption (Tons) | Equivalent Sulfur Dioxide Emissions (lbs/MMBtu) | | |
|-----|---------------------------------------|--|-------------------------|---|------------------|--------------|
| | | | | This day | Previous 29 days | 30 Day Total |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
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| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |

| Day | Daily Average Coal Sulfur Content (%) | Daily Average Coal Heat Content (MMBtu/lb) | Coal Consumption (Tons) | Equivalent Sulfur Dioxide Emissions (lbs/MMBtu) | | |
|-----|---------------------------------------|--|-------------------------|---|------------------|--------------|
| | | | | This day | Previous 29 days | 30 Day Total |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251**

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

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Mailing Address: c/o Patrick Coughlin, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: T051-7175-00013

Months: _____ to _____ Year: _____

Page 1 of 2

| | |
|---|-------------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p> | |
| <input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD. | |
| <input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD | |
| Permit Requirement (specify permit condition #) | |
| Date of Deviation: | Duration of Deviation: |
| Number of Deviations: | |
| Probable Cause of Deviation: | |
| Response Steps Taken: | |
| Permit Requirement (specify permit condition #) | |
| Date of Deviation: | Duration of Deviation: |
| Number of Deviations: | |
| Probable Cause of Deviation: | |
| Response Steps Taken: | |

Page 2 of 2 of Quarterly Deviation And Compliance Monitoring Report

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

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

ATTACHMENT A



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

**PSI Energy, Inc – Gibson Generating Station
S.R. 64 West & C.R. 975
Owensville, Indiana 47670**

ORIS: 6113

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

| | |
|---|--|
| Operation Permit No.: AR 051-19353-00013 | |
| Issued by: Original signed by Paul Dubenetzky Assistant Commissioner Office of Air Quality | Issuance Date: June 28, 2006 Expiration Date: June 28, 2011 |

Title IV Operating Conditions

Title IV Source Description:

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Unit 1 (Boiler No. 1 in the Title V permit), construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5,875 million Btu per hour (MMBtu/hr), equipped with an electrostatic precipitator (ESP) for particulate matter (PM) control, a Selective Catalytic Reduction (SCR) for nitrogen oxide (NOx) control during the ozone season, a flue gas desulfurization (FGD) system for sulfur dioxide (SO₂) control, and exhausting to Stack 1-2. This FGD system for Unit 1 is anticipated to begin operation in October 2007. Unit 1 has its own continuous emissions monitors (CEMs) for NOx and SO₂, and a continuous opacity monitor (COM).
- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Unit 2 (Boiler No. 2 in the Title V permit), construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5,875 million Btu per hour (MMBtu/hr), equipped with an electrostatic precipitator (ESP) for particulate matter (PM) control, a Selective Catalytic Reduction (SCR) system for nitrogen oxide (NOx) control during the ozone season, a flue gas desulfurization (FGD) system for sulfur dioxide (SO₂) emissions control, and exhausting to Stack 1-2. This FGD system for Unit 2 is anticipated to begin operation in June 2007. Unit 2 has its own continuous emissions monitors (CEMs) for NOx and SO₂, and a continuous opacity monitor (COM).
- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Unit 3 (Boiler No. 3 in the Title V permit), construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5,897 million Btu per hour (MMBtu/hr), equipped with a flue gas conditioning system and an electrostatic precipitator (ESP) for particulate matter (PM) control, a Selective Catalytic Reduction (SCR) system for nitrogen oxide (NOx) control during the ozone season, a flue gas desulfurization (FGD) system for sulfur dioxide (SO₂) emissions control, and exhausting to Stack 3. This FGD system for Unit 3 is anticipated to begin operation in December 2006. Unit 3 has its own continuous emissions monitors (CEMs) for NOx and SO₂, and a continuous opacity monitor (COM).
- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Unit 4 (Boiler No. 4 in the Title V permit), construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5,897 million Btu per hour (MMBtu/hr), equipped with an electrostatic precipitator (ESP) for particulate matter (PM) control, a Selective Catalytic Reduction (SCR) system for nitrogen oxide (NOx) control during the ozone season, a flue gas desulfurization (FGD) system for sulfur dioxide (SO₂) control. Unit 4 exhausts to Stack D during normal operations and exhausts to Stack B during startup, shutdown, or other periods when the FGD is not in operation. Unit 4 has continuous emissions monitors (CEMs) for NOx and SO₂, and a continuous opacity monitor (COM).
- (e) One (1) dry bottom, pulverized coal-fired boiler, identified as Unit 5 (Boiler No. 5 in the Title V permit), installed in 1982, with a nominal heat input capacity of 5,900 million Btu per hour (MMBtu/hr), equipped with an electrostatic precipitator (ESP) for particulate matter (PM) control, a Selective Catalytic Reduction (SCR) system for nitrogen oxide (NOx) control during the ozone season, a flue gas desulfurization (FGD) system for sulfur dioxide (SO₂) control, and exhausting to stack C. Boiler No. 5 has continuous emissions monitors (CEMs) for NOx and SO₂, and a continuous opacity monitor (COM).

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

1. Statutory and Regulatory Authorities

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

2. Standard Permit Requirements [326 IAC 21]

- (a) The designated representative has submitted a complete acid rain permit application in accordance with 40 CFR 72.30.
- (b) The Permittee shall operate Units 1, 2, 3, 4, and 5 in compliance with this permit.

3. Monitoring Requirements [326 IAC 21]

- (a) The Permittee and, to the extent applicable, the designated representative of Units 1, 2, 3, 4, and 5 shall comply with the monitoring requirements as provided in 40 CFR 75 and 76.
- (b) The emissions measurements recorded and reported in accordance with 40 CFR 75 and 76 shall be used to determine compliance by Units 1, 2, 3, 4, and 5 with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (c) The requirements of 40 CFR 75 and 76 shall not affect the responsibility of the Permittee to monitor emissions of other pollutants or other emissions characteristics at Units 1, 2, 3, 4, and 5 under other applicable requirements of the Clean Air Act and other provisions of the operating permit for the source.

4. Sulfur Dioxide Requirements [326 IAC 21]

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

- (h) No permit revision may be required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program, provided that the increases do not require a permit revision under any other applicable requirement. [326 IAC 2-7-5(4)(A)]
- (i) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not, however, use allowances as a defense to noncompliance with any applicable requirement other than the requirements of the Acid Rain Program. [326 IAC 2-7-5(4)(B)]
- (j) Sulfur dioxide allowances shall be allocated to each unit at the source as follows:

| SO ₂ Annual Allowance Allocations (tons) * | | | | | |
|---|--------|--------|--------|--------|--------|
| | 2005 | 2006 | 2007 | 2008 | 2009 |
| Unit 1 | 17,415 | 17,415 | 17,415 | 17,415 | 17,415 |
| Unit 2 | 17,678 | 17,678 | 17,678 | 17,678 | 17,678 |
| Unit 3 | 17,709 | 17,709 | 17,709 | 17,709 | 17,709 |
| Unit 4 | 17,384 | 17,384 | 17,384 | 17,384 | 17,384 |
| Unit 5 | 18,180 | 18,180 | 18,180 | 18,180 | 18,180 |

* The number of allowances allocated to Phase II affected units by U.S. EPA may change in a revision to 40 CFR 73 Tables 2, 3, and 4 and 326 IAC 21. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitates a revision to the unit SO₂ allowance allocations identified in this permit. (See 40 CFR 72.84)

5. Nitrogen Oxides Requirements [326 IAC 21]

- (a) The Permittee shall comply with the applicable acid rain emissions limitation for nitrogen oxides (NOx) for Units 1, 2, 3, 4, and 5.
- (b) NOx Emission Averaging Plan for Unit 1:
 - (1) Pursuant to 40 CFR 76.11, IDEM, OAQ approves a NOx emission averaging plan for Unit 1, effective from calendar year 2005 through 2007. Under the plan the NOx emissions from Unit 1 shall not exceed the alternative contemporaneous annual emission limitation (ACEL) of 0.46 lb/MMBtu. In addition, Unit 1 shall not have an annual heat input less than 43,700,000 MMBtu. If Unit 1 is in compliance with its applicable emission limitation for each year of the plan, then Unit 1 shall not be subject to the applicable emission limitation, under 40 CFR 76.5(a)(2) of 0.50 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2008.
 - (2) Under the plan, the actual Btu-weighted annual average NOx emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 1 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
 - (3) Permittee must annually demonstrate that Unit 1 meets the NOx emission limit of 0.45 lb/MMBtu by showing that emissions at the common stack (through which

emissions from Units 1 and 2 are vented) meet such limit, based upon the data from certified continuous emission monitoring systems (CEMS) at common stack A. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.17.

(c) NOx Emission Averaging Plan for Unit 2:

- (1) Pursuant to 40 CFR 76.11, IDEM, OAQ approves a NOx emission averaging plan for Unit 2, effective from calendar year 2005 through 2007. Under the plan the NOx emissions from Unit 2 shall not exceed the ACEL of 0.45 lb/MMBtu. In addition, Unit 2 shall not have an annual heat input less than 44,900,000 MMBtu. If Unit 2 is in compliance with its applicable emission limitation for each year of the plan, then Unit 2 shall not be subject to the applicable emission limitation, under 40 CFR 76.5(a)(2) of 0.50 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2008.
- (2) Under the plan, the actual Btu-weighted annual average NOx emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 2 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (3) Permittee must annually demonstrate that Unit 2 meets the NOx emission limit of 0.45 lb/MMBtu by showing that emissions at the common stack (through which emissions from Units 1 and 2 are vented) meet such limit, based upon the data from certified continuous emission monitoring systems (CEMS) at common stack A. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.17.

(d) NOx Emission Averaging Plan for Unit 3:

- (1) Pursuant to 40 CFR 76.11, IDEM, OAQ approves a NOx emission averaging plan for Unit 3, effective from calendar year 2005 through 2007. Under the plan the NOx emissions from Unit 3 shall not exceed the ACEL of 0.49 lb/MMBtu. In addition, Unit 3 shall not have an annual heat input less than 45,300,000 MMBtu. If Unit 3 is in compliance with its applicable emission limitation for each year of the plan, then Unit 3 shall not be subject to the applicable emission limitation, under 40 CFR 76.5(a)(2) of 0.50 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2008.
- (2) Under the plan, the actual Btu-weighted annual average NOx emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 3 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (3) Permittee must annually demonstrate that Unit 3 meets the NOx emission limit of 0.45 lb/MMBtu by showing that emissions at the common stack (through which emissions from Units 3 and 4 are vented) meet such limit, based upon the data from certified continuous emission monitoring systems (CEMS) at common stack

B. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.17.

(e) NOx Emission Averaging Plan for Unit 4:

- (1) Pursuant to 40 CFR 76.11, IDEM, OAQ approves a NOx emission averaging plan for Unit 4, effective from calendar year 2005 through 2007. Under the plan the NOx emissions from Unit 4 shall not exceed the ACEL of 0.45 lb/MMBtu. In addition, Unit 4 shall not have an annual heat input less than 47,100,000 MMBtu. If Unit 4 is in compliance with its applicable emission limitation for each year of the plan, then Unit 4 shall not be subject to the applicable emission limitation, under 40 CFR 76.5(a)(2) of 0.50 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2008.
- (2) Under the plan, the actual Btu-weighted annual average NOx emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 4 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (3) Permittee must annually demonstrate that Unit 4 meets the NOx emission limit of 0.45 lb/MMBtu by showing that emissions at the common stack (through which emissions from Units 3 and 4 are vented) meet such limit, based upon the data from certified continuous emission monitoring systems (CEMS) at common stack B. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.17.

(f) NOx Emission Averaging Plan for Unit 5:

- (1) Pursuant to 40 CFR 76.11, IDEM, OAQ approves a NOx emission averaging plan for Unit 5, effective from calendar year 2005 through 2007. Under the plan the NOx emissions from Unit 5 shall not exceed the ACEL of 0.45 lb/MMBtu. In addition, Unit 5 shall not have an annual heat input less than 48,900,000 MMBtu. If Unit 5 is in compliance with its applicable emission limitation for each year of the plan, then Unit 5 shall not be subject to the applicable emission limitation, under 40 CFR 76.7(a)(2) of 0.46 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2008.
 - (2) Under the plan, the actual Btu-weighted annual average NOx emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 5 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (g) In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the Ohio Environmental Protection Agency, Division of Air Pollution Control; and the Kentucky Department of Environmental Protection, Division of Air Quality have also approved this averaging plan.
- (h) In addition to the described NOx compliance plan, the units shall comply with all other

applicable requirements of 40 CFR 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.

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

(a) If Unit 1, 2, 3, 4, or 5 has excess emissions of sulfur dioxide in any calendar year, the designated representative shall submit a proposed offset plan to U.S. EPA and IDEM, OAQ as required under 40 CFR 77 and 326 IAC 21.

(b) The designated representative shall submit required information to:

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

and

Ms. Cecilia Mijares
Air and Radiation Division
U.S. Environmental Protection Agency, Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590

and

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

(c) If Unit 1, 2, 3, 4, or 5 has excess emissions, as defined in 40 CFR 72.2, in any calendar year the Permittee shall:

- (1) Pay to U.S. EPA without demand the penalty required, and pay to U.S. EPA upon demand the interest on that penalty, as required by 40 CFR 77 and 326 IAC 21; and,
- (2) Comply with the terms of an approved sulfur dioxide offset plan, as required by 40 CFR 77 and 326 IAC 21.

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

(a) Unless otherwise provided, the Permittee shall keep on site each of the following documents for a period of 5 years, as required by 40 CFR 72.9(f), from the date the document is created. This period may be extended for cause, at any time prior to the end of the 5 years, in writing by U.S. EPA or IDEM, OAQ:

- (1) The certificate of representation for the designated representative of Units 1, 2, 3, 4, and 5 and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
- (2) All emissions monitoring information collected in accordance with 40 CFR 75 shall be retained on site for 3 years;
- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

- (4) Copies of all documents used to complete an acid rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (b) The designated representative of Units 1, 2, 3, 4, and 5 shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 72.90, Subpart I, 40 CFR 75, and 326 IAC 21. The required information is to be submitted to the appropriate authority(ies) as specified in 40 CFR 72.90, Subpart I, and 40 CFR 75.

8. Submissions [326 IAC 21]

- (a) The designated representative of Units 1, 2, 3, 4, and 5 shall submit a certificate of representation, and any superseding certificate of representation, to U.S. EPA and IDEM, OAQ in accordance with 40 CFR 72 and 326 IAC 21.
- (b) The designated representative shall submit required information to:
 - Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251
 - and
 - U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue, NW
Mail Code (6204N)
Washington, DC 20460
- (c) Each such submission under the Acid Rain Program shall be submitted, signed and certified by the designated representative for all sources on behalf of which the submission is made.
- (d) In each submission under the Acid Rain Program, the designated representative shall certify, by his or her signature, the following statements which shall be included verbatim in the submission:
 - (1) "I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made."; and,
 - (2) "I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (e) The designated representative of Units 1, 2, 3, 4, and 5 shall notify the Permittee:
 - (1) By the date of submission, of any Acid Rain Program submissions by the designated representative;
 - (2) Within 10 business days of receipt of any written determination by U.S. EPA or IDEM, OAQ; and,
 - (3) Provided that the submission or determination covers Unit 1, 2, 3, 4, or 5.

- (f) The designated representative of Units 1, 2, 3, 4, and 5 shall provide the Permittee a copy of any submission or determination under paragraph 8(e), unless the Permittee expressly waives the right to receive a copy.

9. Severability [326 IAC 21]

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

10. Liability [326 IAC 21]

- (a) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, an acid rain permit, an acid rain portion of an operation permit, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement by U.S. EPA pursuant to Section 113(c) of the Clean Air Act and shall be subject to enforcement by IDEM pursuant to 326 IAC 21 and IC 13-30-3.
- (b) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the Clean Air Act, 18 U.S.C. 1001 and IDEM pursuant to 326 IAC 21 and IC 13-30-6-2.
- (c) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (d) Units 1, 2, 3, 4, and 5 shall meet the requirements of the Acid Rain Program.
- (e) Any provision of the Acid Rain Program that applies to Unit 1, 2, 3, 4, or 5, including a provision applicable to the designated representative of Unit 1, 2, 3, 4, or 5 shall also apply to the Permittee.
- (f) Any provision of the Acid Rain Program that applies to Unit 1, 2, 3, 4, or 5, including a provision applicable to the designated representative, shall also apply to the Permittee. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NOx averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR 75, including 40 CFR 75.16, 75.17, and 75.18, the Permittee and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (g) Each violation of a provision of 40 CFR 72, 73, 75, 76, 77, and 78 by Unit 1, 2, 3, 4, or 5, or by the Permittee or designated representative shall be a separate violation of the Clean Air Act.

11. Effect on Other Authorities [326 IAC 21]

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

- (a) Except as expressly provided in Title IV of the Clean Air Act (42 USC 7651 to 7651(o)), exempting or excluding the Permittee and, to the extent applicable, the designated representative of Unit 1, 2, 3, 4, or 5 from compliance with any other provision of the Clean Air Act, including the provisions of Title I of the Clean Air Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

- (b) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Clean Air Act;
- (c) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;
- (d) Modifying the Federal Power Act (16 USC 791(a) et seq.) or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; and
- (e) Interfering with or impairing any program for competitive bidding for power supply in a state in which such a program is established.

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

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

| |
|--|
| Source Description and Location |
|--|

| | |
|--------------------------------------|---|
| Source Name: | Duke Energy Indiana, Inc. - Gibson Generating Station |
| Source Location: | 1097 N 950 W, Owensville, Indiana 47665 |
| County: | Gibson |
| SIC Code: | 4911 (Electric Services) |
| Operation Permit No.: | T051-7175-00013 |
| Operation Permit Issuance Date: | July 7, 2004 |
| Significant Permit Modification No.: | 051-23526-00013 |
| Permit Writer: | Nathan C. Bell |

On March 29, 2007, the Office of Air Quality (OAQ) had a notice published in The Princeton Daily Clarion, Princeton, Indiana, stating that OAQ and PSI Energy, Inc. (now Duke Energy Indiana, Inc.), reached a settlement that would resolve each of the three petitions for administrative review (Cause Nos. 04-A-J-3415, 05-A-J-3525, and 06-A-J-3665). The notice also stated that, based on the settlement, IDEM OAQ developed preliminary findings, consisting of a draft Significant Permit Modification (SPM) and several supporting documents, that will resolve each of the three petitions as agreed in the settlement for the Gibson Generating Station (Plant ID 051-00013) only. The notice also stated that the OAQ proposed to issue a SPM for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

No comments were received during the public notice period.

Additional Changes To Permit

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the permit will have the updated changes. IDEM, OAQ has decided to make the following additional revisions to the permit.

- (a) The intent of Record Keeping Requirements for Visible Emission Notations is that the Permittee needs to make a record of some sort at the required frequency. An example for Visible Emission Notations would be "normal" or "abnormal". Additionally, if Visible Emission Notations were not done at the required frequency, the Permittee needs to specify the reason why the observation was not done. An example of this record would be "the unit was not operating". In order to clarify the Record Keeping Requirements with respect to Visible Emission Notations, Conditions D.6.5, D.7.8, D.9.8(a), and D.10.6(a) are revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**.

D.6.5 Record Keeping Requirements

To document compliance with Section C - Opacity, Section C -Fugitive Dust Emissions, and Condition D.6.4 - Visible Emissions Notations, the Permittee shall maintain records of the visible emission notations of the transfer points, railcar unloading stations and all response steps taken and the outcome for each. **The Permittee shall include in its records 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.7.8 Record Keeping Requirements

To document compliance with Section C - Opacity and Condition D.7.8 - Visible Emissions Notations, the Permittee shall maintain records of the visible emission notations of the transfer points, limestone unloading station doors, fly ash storage pond area(s) and all response steps taken and the outcome for each. **The Permittee shall include in its records 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.9.8 Record Keeping Requirements

(a) The Permittee shall maintain records of the once per week visible emission notations of the limestone transfer points, and all response steps taken and the outcome for each and make such records available upon request to IDEM, OAQ, and the US EPA. **The Permittee shall include in its records 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.10.6 Record Keeping Requirements

(a) The Permittee shall maintain records of the once per week visible emission notations of the gypsum transfer points, and all response steps taken and the outcome for each and make such records available upon request to IDEM, OAQ, and the US EPA. **The Permittee shall include in its records 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).**

...

(b) In order to correct a typographical error, Condition C.18(b) is revised from the terminology "one-hundred and twenty" to "one hundred twenty" as follows, with deleted language as ~~strikeouts~~:

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

...

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one- hundred ~~and~~ twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

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

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| Source Description and Location |
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| Source Name: | Duke Energy Indiana, Inc. - Gibson Generating Station |
| Source Location: | 1097 N 950 W, Owensville, Indiana 47665 |
| County: | Gibson |
| SIC Code: | 4911 (Electric Services) |
| Operation Permit No.: | T051-7175-00013 |
| Operation Permit Issuance Date: | July 7, 2004 |
| Significant Permit Modification No.: | 051-23526-00013 |
| Permit Writer: | Nathan C. Bell |

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| History |
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This section outlines the recent permitting history for this source, Duke Energy Indiana, Inc. - Gibson Generating Station (previously Cinergy Corporation d.b.a. PSI Energy Inc. - Gibson Generating Station).

- (a) PSI Energy, Inc. was issued a Part 70 Operating Permit No. T051-7175-00013 on July 7, 2004 for a stationary electric utility generating station located at S.R. 64 W & C.R. 975, Owensville, Indiana 47570. PSI Energy, Inc. filed a petition as Cause No. 04-A-J-3415 for administrative review of the Part 70 operating permit with the Office of Environmental Adjudication (OEA).
- (b) PSI Energy, Inc. was issued a Minor Source Modification No. 051-20836-00013 on March 11, 2005. PSI Energy, Inc. filed a petition as Cause No. 05-A-J-3525 for administrative review of the Minor Source Modification with the OEA.
- (c) PSI Energy, Inc. was issued a Minor Permit Modification No. 051-20033-00013 on December 27, 2005. PSI Energy, Inc. filed a petition as Cause No. 06-A-J-3665 for administrative review of the Minor Permit Modification with the OEA.

On June 21, 2006, the Office of Air Quality (OAQ) and PSI Energy, Inc. (now Duke Energy Indiana, Inc.) reached a settlement that would resolve each of the three petitions above. On July 21, 2006, the OAQ received a letter from PSI Energy, Inc., summarizing the settlement reached and changes agreed to be made to the operating permits for several PSI Energy, Inc. electric utility generating stations. This Significant Permit Modification resolves each of the three petitions as agreed in the settlement for the PSI Energy, Inc. Gibson Generating Station (Plant ID 051-00013) only. As a result of this permit modification, changes to the permit have been made as detailed below in the Proposed Changes section of this TSD.

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| Existing Approvals |
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The source was issued a Part 70 Operating Permit No. T051-7175-00013 on July 7, 2004. The source has since received the following approvals:

- (a) First Minor Source Modification No. 051-20836-00013, issued March 11, 2005
- (b) First Minor Permit Modification No. 051-20033-00013, issued December 27, 2005
- (c) First Significant Permit Modification No. 051-17002-00013, issued March 23, 2006
- (d) Title IV (Acid Rain) Permit Renewal No. AR 051-19353-00013, issued June 28, 2006.

County Attainment Status

The source is located in Gibson County.

| Pollutant | Status |
|-----------------|------------------------------|
| PM10 | Attainment or Unclassifiable |
| PM2.5 | Basic Nonattainment |
| SO ₂ | Attainment or Unclassifiable |
| NO ₂ | Attainment or Unclassifiable |
| 8-Hour Ozone | Attainment or Unclassifiable |
| CO | Attainment or Unclassifiable |
| Lead | Attainment or Unclassifiable |

- (a) 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 the ozone standard. Gibson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Gibson County has been classified as nonattainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
- (c) Gibson County has been classified as attainment or unclassifiable for all the other regulated criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) On October 25, 2006, 326 IAC 1-4-1 was revised to redesignate Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoke the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
This source is a stationary source category that, as of August 7, 1980, is being regulated under Section 111 or 112 of the Clean Air Act. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2004 OAQ emission data.

| Pollutant | Emissions (tons/yr) |
|------------------|---------------------|
| PM | NR |
| PM10 | 825 |
| SO ₂ | 164121 |
| NO _x | 36849 |
| VOC | 288 |
| CO | 2400 |
| Lead | 0 |
| Worst Single HAP | NR |
| Total HAPs | NR |

NR = Not Reported

Background and Description of Proposed Modification

On June 21, 2006, the Office of Air Quality (OAQ) and PSI Energy, Inc. (now Duke Energy Indiana, Inc.) reached a settlement that would resolve each of the three petitions for administrative review (Cause Nos. 04-A-J-3415, 05-A-J-3525, and 06-A-J-3665). On July 21, 2006, the OAQ received a letter from PSI Energy, Inc., summarizing the settlement reached and changes agreed to be made to the operating permits for several PSI Energy, Inc. electric utility generating stations. This Significant Permit Modification resolves each of the three petitions as agreed in the settlement for the PSI Energy, Inc. Gibson Generating Station (Plant ID 051-00013) only. As a result of this permit modification, changes to the permit have been made as detailed below in the Proposed Changes section of this TSD.

Enforcement Issues

There are no pending enforcement actions related to this modification.

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.”

There is not an increase in the potential to emit associated with this modification.

This modification to the Part 70 operating permit is performed as a Significant Permit Modification (SPM) issued pursuant to 326 IAC 2-7-12 (d), because the modification results in significant changes in existing monitoring Part 70 permit terms or conditions, and/or results in relaxation of reporting or record keeping permit terms or conditions.

Federal Rule Applicability Determination (Modification)

There are no federal rules included in this TSD for this modification.

State Rule Applicability Determination (Modification)

There are no state rules included in this TSD for this modification.

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 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. 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.

Changes to the compliance determination and monitoring requirements are detailed below in the Proposed Changes section of this TSD.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T051-7175-00013 in order to resolve each of the three petitions for administrative review (Cause Nos. 04-A-J-3415, 05-A-J-3525, and 06-A-J-3665):

| Item No. | Description of Permit Change | Original Condition(s) or Item(s) Changed |
|----------|---|--|
| 1 | Based on Enhanced 911 implementation in Gibson County in June 2006, the source address is now: 1097 N 950 W, Owensville, IN 47665. | A.1, cover page, and reporting forms |
| 2 | The source mailing address and telephone are revised to the following: Mailing Address: c/o Patrick Coughlin, 1000 East Main Street, Plainfield, IN 46168 Source Telephone: (317) 838-2108 In addition, to minimize future amendments to the issued Part 70 Permits, the OAQ decided to delete the name and/or title of the Responsible Official (RO) in Section A.1, General Information, of the permit. However, OAQ will still be evaluating if a change in RO meets the criteria specified in 326 IAC 2-7-1(34). | A.1 and reporting forms |
| 3 | IDEM has decided to include updates to further address and clarify the permit term and the term of the conditions. | B.2 B.13 B.16 B.25 (new) |
| 4 | In Nonrule Policy Document No. AIR 007 NPD, revised September 6, 2002, a table is given as an example for how sources can submit annual compliance certifications. Original Condition B.9 is revised to remove "in letter form" so that it does not contradict the guidance. | B.9 |

| Item No. | Description of Permit Change | Original Condition(s) or Item(s) Changed |
|----------|--|---|
| 5 | <p>IDEM's mailing address is updated throughout the permit to be:</p> <p><u>A. For Permits Branch and Compliance Branch:</u> 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251</p> <p><u>B. For Technical Support and Modeling Section:</u> 100 North Senate Avenue MC 61-50 IGCN 1003 Indianapolis, Indiana 46204-2251</p> | entire permit |
| 6 | Original condition B.10(a)(1) is revised to reference individuals by job title or classification. | B.10(a)(1) |
| 7 | The Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. | B.10 B.11 D.1.15(c) D.2.15(c) D.3.15(c) D.4.17(d) D.5.20(d) D.6.8(d) D.7.12(d) D.9.8(b) D.10.6(b) |
| 8 | <p>Original Condition B.11 and the reporting forms are revised to update the phone number and the fax number listed, so that the IDEM OAQ's receptionist number is listed and the fax number for the Compliance Branch is listed.</p> <p>Telephone Number: 317-233-0178 Facsimile Number: 317-233-6865</p> | B.11 and reporting forms |
| 9 | Original Condition B.17 is revised to clarify that a modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2. | B.17 |
| 10 | Original Condition B.18 is revised to remove (d) concerning nonroad engines. 40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new. | B.18 |
| 11 | Original Condition B.20 is revised to further clarify the applicable requirements and to clarify that the condition does not apply to emission trades of SO ₂ or NO _x under 326 IAC 21 or 326 IAC 10-4. | B.20 |
| 12 | Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule became effective on March 16, 2005. Original Condition B.24 is revised to reflect the rule language as incorporated in 326 IAC 1-1-6. | B.24 |
| 13 | The 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. Original Condition C.1 has been revised to remove (a) which contained these requirements, and since the requirements of the 326 IAC 6-3-2 that were effective June 12, 2002 are now federally enforceable, the last statements from C.1 has been removed. | C.1 |
| 14 | 326 IAC 9 was approved into the Indiana SIP on November 30, 2004, with an effective date of January 31, 2005. Therefore original Condition C.4 is revised to remove the statement that 326 IAC 9-1-2 is not federally enforceable. | C.4 |

| Item No. | Description of Permit Change | Original Condition(s) or Item(s) Changed |
|----------|--|---|
| 15 | Original Condition C.12 is revised to indicate that no additional monitoring will be required during COM downtime, until the COM has been down for twenty-four (24) hours. This allows the Permittee to focus on the task of repairing the COM during the first twenty-four (24) hour period. After twenty-four (24) hours of COM downtime, the Permittee will be required to conduct Method 9 readings for thirty (30) minutes. Once Method 9 readings are required to be performed, the readings should be performed twice per day at least 4 or 6 hours apart, rather than once every four (4) hours, until a COMS is back in service. In addition, the requirements of original Condition C.12 were revised to provide additional clarification. | C.12 |
| 16 | Original Condition C.14 is revised to state that the condition only applies to analog units, since the specifications can only be practically applied to analog units. Original Condition C.14 is also revised to remove the accuracy requirements, since the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. | C.14 |
| 17 | Original Condition C.16 is revised to provide clarification regarding requirements that are applicable. | C.16 |
| 18 | Original Condition C.17 is revised by replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. The Section D conditions that refer to this condition have been revised to reflect the new condition title. | C.17 entire permit |
| 19 | Original Conditions C.19 and C.20 are revised to reflect NSR (New Source Review) reform provisions at major sources and to provide further clarification regarding applicable requirements. | C.19 C.20 |
| 20 | IDEM has determined that the following conditions do not need to be included in the permit, since they are each regulated by other agencies. Subsequent conditions have been renumbered due to these deletions. | D.1.4 D.1.11 D.2.4 D.2.11 D.3.4 D.3.11 D.4.4 D.4.12 D.5.5 D.5.14 |
| 21 | IDEM has determined that the following conditions do not need to be included in the permit, since the same requirements are included in Section G of the permit. Subsequent conditions have been renumbered due to these deletions. | D.1.10 D.2.10 D.3.10 D.4.11 D.5.13 |
| 22 | IDEM has determined that original Conditions D.1.14.1, D.2.14.1, D.3.14.1, D.4.15, and D.5.17 do not need to be included in the permit, since the same requirements are included in original Conditions D.1.7(b), D.2. 7(b), D.3. 7(b), D.4.8, and D.5.10 of the permit, respectively. | D.1.14.1 D.2.14.1 D.3.14.1 D.4.15 D.5.17 |

| Item No. | Description of Permit Change | Original Condition(s) or Item(s) Changed |
|----------|---|---|
| 23 | <p>IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections and record keeping of those inspections have been removed from the permit. Subsequent conditions have been renumbered due to these deletions.</p> | <p>D.1.5(b) D.1.15(a)(3) D.2.5(b) D.2.15(a)(3) D.3.5(b) D.3.15(a)(3) D.4.5(b) D.4.15(b) D.4.17(a)(3) D.5.7(b) D.5.17(b) D.5.20(a)(3) D.6.6 D.6.8(c) D.7.10 D.7.12(c)</p> |
| 24 | <p>Facility descriptions for Boiler No. 4 in Sections A.2(d), D.4, E, F, and G to delete the terminology "during normal operations, and exhausting to Stack B during startup, shutdown, or other periods when the FGD is not in operation", since the duct work from Boiler No. 4 to Stack B has been physically disconnected and flow through Stack B is no longer possible.</p> <p>Original Condition D.4.2 is revised to remove the terminology "This exemption period includes the sum total of Stack "B" and Stack "D" non-overlapping exceedance periods."</p> | <p>A.2(d) D.4 D.4.2(a), (b) E F G</p> |
| 25 | <p>References and requirements for baghouses controlling coal and limestone hoppers and conveyors in Sections A.2, D.6, and D.7 are removed, since the baghouses were not installed for compliance purposes, as agreed in the settlement. The baghouses are not necessary to meet the requirements of 326 IAC 6-3, since the uncontrolled potential to emit particulate matter from each of the hoppers and conveyors are less than the allowable emission rates under 326 IAC 6-3.</p> <p>IDEM has also agreed that the following control efficiencies are adequate for determining the controlled particulate matter emissions from coal and limestone handling activities:</p> <p>Telescopic chute/wetting: 50% control efficiency Partial Enclosure: 70% control efficiency Enclosure: 90% control efficiency</p> <p>The control efficiencies are consistent with values contained in Table 6-1 of EPA document "Stationary Source Control Techniques Document for Fine Particulate Matter, EPA-452/R-97-001" and Table 9.12.11 of EPA document "Control Techniques for Particulate Emissions from Stationary Sources, Volume 2, EPA-450/3-81-005b"</p> | <p>A.2(f)(2), (4), (5) A.2(g)(2), (4), (5) D.6(2), (4), (5), (6) D.6.2 D.6.3(a) D.6.4(a) D.6.5 D.6.6 D.6.7 D.6.8 D.7(2), (4), (5) D.7.5 D.7.6(a) D.7.9 D.7.10 D.7.11 D.7.12</p> |

| Item No. | Description of Permit Change | Original Condition(s) or Item(s) Changed |
|----------|--|---|
| 26 | Original Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.3 (Temporary Alternative Opacity Limitations (TAOLs)) are revised to clarify the following: (a) Opacity measurement averaging periods can be consecutive or non-consecutive. (b) The TAOLs for each of the boilers allow for an additional one startup per year up to 7 hours and one shutdown per year up to 5 hours to allow for major outages or other significant or unusual circumstances. As agreed in the settlement, IDEM is allowing this particular provision only for the Duke Energy Indiana, Inc. Gibson Generating Station (Plant ID 051-00013) boilers. | D.1.2 D.2.2 D.3.2 D.4.2 D.5.3 |
| 27 | Original Conditions D.1.7(a), D.2.7(a), D.3.7(a), D.4.7, D.5.9 are revised to indicate that an electrostatic precipitator (ESP) shall be operated at all times that a boiler is in operation and combusting any amount of solid fuel or any combination of solid fuel and other fuels. | D.1.7(a) D.2.7(a) D.3.7(a) D.4.7 D.5.9 |
| 28 | Original Conditions D.1.8(b), D.2.8(b), and D.3.8(b) are revised to clarify that the sulfur dioxide (SO ₂) continuous monitoring systems are required upon commencement of operation of the flue gas desulfurization (FGD) system. | D.1.8(b) D.2.8(b) D.3.8(b) |
| 29 | IDEM has determined that the following frequency of monitoring (e.g., T-R set monitoring, baghouse pressure drop readings, visible emission notations, etc.) is generally sufficient to ensure proper operation of a control device (e.g., electrostatic precipitator, baghouse, etc.) and is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6: (a) once per week monitoring coal unloading station doorways, coal drop points, and coal transfer points, limestone unloading, limestone transfer points, and limestone ball mill baghouse exhaust, and gypsum transfer points; and (b) once per day monitoring of T-R sets and ash storage pond area(s). To provide further clarification, original Conditions D.6.5, D.6.7, D.7.9, and D.7.11 are revised from "total static pressure drop readings" to "pressure drop readings". Finally, to provide further clarification, Conditions D.6.4, D.7.8, D.9.7, D.10.5 are revised to clarify if reasonable response steps are to be taken when "any" emissions are observed or when "abnormal" emissions are observed during visible emission notations. | D.1.12(a) D.2.12(a) D.3.12(a) D.4.13(a) D.5.15(a) D.6.4 D.6.5 D.6.7 D.7.8 D.7.9 D.7.11 D.9.7 D.10.5 |
| 30 | Original Conditions D.1.13, D.2.13, D.3.13, D.4.14, D.5.16, are revised to indicate that opacity reading requirements do not apply to each boiler during startup and shutdown of the boiler and do not apply when the boiler is being controlled by a flue gas desulfurization (FGD) system. | D.1.13 D.2.13 D.3.13 D.4.14 D.5.16 |

| Item No. | Description of Permit Change | Original Condition(s) or Item(s) Changed |
|----------|---|--|
| 31 | <p>Sections D.1 through D.5 are revised to clarify the monitoring requirements for the SO₂ monitoring system and inspection requirements for the flue gas desulfurization (FGD) system, as well as all associated record keeping and reporting requirements.</p> <p>IDEM has determined that when the SO₂ CEMS is down, the Permittee will not be required to perform any additional monitoring until the CEMS has been down for at least twenty-four (24) hours. This allows the Permittee to focus on the task of repairing the CEMS during the first twenty-four (24) hour period. After twenty-four (24) hours of CEMS downtime, the Permittee will be required to begin performing parametric monitoring in order to demonstrate compliance with the applicable SO₂ emission limits.</p> <p>Original Conditions D.4.17(c) and D.5.20(c) are removed from the permit, since flue gas conditioning agent is not used for Boiler Nos. 4 and 5.</p> | D.1.14 D.1.14.1 D.1.15(b), (d) D.1.16(b), (c) D.2.14 D.2.14.1 D.2.15(b), (d) D.2.16(b), (c) D.3.14 D.3.14.1 D.3.15(b), (d) D.3.16(b), (c) D.4.15(a), (c), (d) D.4.16 D.4.17(b), (c) D.5.17(a), (c), (d) D.5.18 D.5.20(b), (c), (e) Quarterly Report Form |
| 32 | <p>Original Condition D.5.19 is removed from the permit. IDEM has determined that additional monitoring during NO_x CEMS downtime is unnecessary since the NSPS 40 CFR 60, Subpart Db already establishes minimum requirements for valid data return. Pursuant to this rule, the emission unit is determined to be noncompliant with the applicable emission limit if excessive CEMS downtime results in insufficient data return. Subsequent conditions have been renumbered due to these deletions.</p> | D.5.19 |
| 33 | <p>Original Conditions D.6.7 and D.7.11 are revised to delete paragraph (a) and to include new requirements for single compartment baghouses. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag.</p> | D.6.7 D.7.11 |
| 34 | <p>Original Condition D.9.7 is revised to include requirements for when abnormal emissions are observed from the limestone transfer points.</p> | D.9.7(f) |
| 35 | <p>Original Condition D.10.1 is revised to clarify the requirements of 326 IAC 6-3-2</p> | D.10.1 |
| 36 | <p>Original Condition D.10.5 is revised to include requirements for when abnormal emissions are observed from the gypsum transfer points.</p> | D.10.5(f) |
| 37 | <p>Facility descriptions for Boiler No. 3 in Sections D.3, E, F, and G are revised to be the same as the facility description in Section A.2(c) by adding the terminology "a flue gas conditioning system and".</p> | D.3 E F G |
| 38 | <p>Additional clarification of other applicable requirements and permit language, correction of typographical errors, and renumbering of conditions is included in this modification.</p> | entire permit |
| 39 | <p>The Table of Contents has been revised accordingly, including an updated reference to the Title IV (Acid Rain) Permit Renewal No. AR 051-19353-00013, issued June 28, 2006 as Attachment A</p> | Table of Contents |

As a result of this permit modification, the permit is revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(2122)]

The Permittee owns and operates a stationary electric utility generating station.

~~Responsible Official: Station Manager of the Gibson Generating Station~~
Source Address: **1097 N 950 W, S.R. 64 W & C.R. 975, Owensville, Indiana 47665570**
Mailing Address: c/o **Patrick Coughlin** ~~Steven Pearl~~, 1000 East Main Street, Plainfield, Indiana 46168
Source Telephone: (317) 838-~~1758~~**2108**

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

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

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5875 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions ~~anticipated to begin operation 10/21/07~~, and exhausting to a new stack, identified as Stack 1-2.

This FGD system **for** Boiler No. 1 is anticipated to begin operation in October 2007.

- ...
(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D ~~during normal operations, and exhausting to Stack B during startup, shutdown, or other periods when the FGD is not in operation.~~

- ...
(f) A coal transfer system, with a nominal throughput of 6,000 tons of coal per hour, consisting of the following equipment:

- ...
(2) Two (2) active piles, each with a drop point to a hopper identified as DP-1 and DP-16, with each drop point enclosed and ~~controlled by a baghouse, and~~ exhausting to the ambient air.
...
(4) Four (4) enclosed hoppers, each with a drop point to conveyors identified as DP-2, DP-6, DP-17 and DP-26, with each drop point enclosed and ~~controlled by a baghouse, and~~ exhausting to the ambient air.
...
(5) An enclosed conveyor system, with 18 drop points identified as DP-3, DP-4, DP-7 through DP-15, and DP-18 through DP-24, with each drop point enclosed ~~and controlled by a baghouse~~, excluding the two (2) active pile conveyors which have the drop points (DP-18 and DP-22) controlled by telescopic chutes, and exhausting to the ambient air.

- ...
(g) A limestone processing system, consisting of the following equipment:

- ...
(2) Two (2) enclosed hoppers, each with a drop point to conveyors identified as LSDP-2 and LSDP-5 with a nominal throughput of 200 tons of limestone per hour, with each drop point enclosed ~~and controlled by a baghouse, and~~ exhausting to the ambient air.

...

- (4) An enclosed conveyor system, with four (4) drop points identified as LSDP-3 and LSDP-8 through LSDP-10, with each drop point enclosed ~~and controlled by a baghouse, and exhausting to the ambient air.~~
- (5) One (1) enclosed hammermill, with a drop point to a conveyor identified as LSDP-6, with the drop point enclosed ~~and controlled by a baghouse, and exhausting to the ambient air.~~

...

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, **T051-7175-00013**, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (b) **If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.**

...

B.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 **the** "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, or its equivalent, with each submittal requiring certification. One (1) certification ~~can~~ **may** cover multiple forms in one (1) submittal.
- (c) ~~The 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 ~~in letter form~~ 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

...

- (c) The annual compliance certification report shall include the following:

...

- (3) Whether compliance was continuous or intermittent; ~~and~~
- (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.

...

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), **by job title or classification**, responsible for inspecting, maintaining, and repairing emission control devices;

...

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

...

~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions.~~

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

(cd) To the extent the Permittee is required by 40 CFR Part 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]

...

(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:

...

(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: 317-233-5674**40178** (ask for Compliance Section)
Facsimile Number: 317-233-5967**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

...

- (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.**

...

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

- (a) All terms and conditions of ~~previous permits~~ **established prior to T051-7175-00013 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**.
- ~~by this permit.~~
- (b) **All Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).**

B.14 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

...

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

...

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) ~~Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

(1) A timely renewal application is one that is:

- (A) **1** Submitted at least nine (9) months prior to the date of the expiration of this permit;
and

(B2) 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.

~~(2) If IDEM, OAQ, upon receiving a timely and complete 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.~~

(c) ~~Right to Operate After Application for Renewal [326 IAC 2-7-3][326 IAC 2-7-4]~~
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 a reasonable **the** deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application. ~~[326 IAC 2-7-4(a)(2)(D) and (E)]~~

~~(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]~~
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.17 Source Modification [326 IAC 1-2-42][326 IAC 2-7-10.5][326 IAC 2-2-2][326 IAC 2-3-2]

...

(b) Any application requesting a source modification 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

...

(d) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

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

...

~~(e) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~

...

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:

...

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

(4) The Permittee notifies the:

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

...

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

...

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade **emissions** increases and decreases ~~in emissions at~~ in 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).

...

(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 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][**IC 13-30-3-1**][**IC 13-17-3-2**]

...

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

...

(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

...

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

...

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, ~~IM &~~ Billing Section, **Licensing, and Training**), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

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.

B.25 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.**

...
C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

~~(a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

~~(b) 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. This condition is not federally enforceable.~~

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

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

~~326 IAC 9-1-2 is not federally enforceable.~~

...
C.9 Performance Testing [326 IAC 3-6]

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

- ...
- (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 Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period. The test report requires certification by the responsible official.**
- ...

C.11 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

...

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

...

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

- (a) The Permittee shall **install**, calibrate, maintain, and operate all ~~necessary~~-continuous opacity monitoring systems (COMS) and related equipment **required by this permit**. For a boiler, the COMS shall be in operation at all times that the induced draft fan is in operation.
- (b) All ~~continuous opacity monitoring systems~~**COMS** shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (c) In the event that a breakdown of a ~~continuous opacity monitoring system~~**COMS** occurs, a record shall be made of the ~~times~~ and reasons of the breakdown and efforts made to correct the problem.
- (d) Whenever a ~~continuous opacity monitor (COMS)~~ is malfunctioning or ~~will be~~**is** down for ~~calibration, maintenance, or repairs for a period of one (1) hour~~**twenty-four (24) hours** or more, ~~compliance with the applicable opacity limits shall be demonstrated by the following:~~
- (1) ~~Visible emission (VE) notations shall be performed once per hour during daylight operations following the shutdown or malfunction of the primary COM. A trained employee shall record whether emissions are normal or abnormal for the state of operation of the emission unit at the time of the reading.~~
- (A) ~~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.~~
- (B) ~~If abnormal emissions are noted during two consecutive emission notations, the Permittee shall begin Method 9 opacity observations within four hours of the second abnormal notation.~~
- (C) ~~VE notations may be discontinued once a COM is online or formal Method 9 readings have been implemented.~~
- (2) ~~If~~ **and a backup COMS** is not online within twenty-four (24) hours of shutdown or malfunction of the primary **COMS**, the Permittee shall provide ~~a~~ certified opacity reader(s), who may be ~~employees~~ **an employee** of the Permittee or ~~an~~ independent contractors, to self-monitor the emissions from the emission unit stack.
- (1A) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.
- (2B) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least ~~once every four (4) hours~~**twice per day** during daylight operations, **with at least four (4) hours between each set of readings**, until ~~such time that a COMS is in operation~~ **online**.

- (3C) Method 9 readings may be discontinued once a COMS is online.
- (4D) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.
- ~~(3) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, **(and 40 CFR 60 and Construction Permit PSD (26) 1215./or 40 CFR 63).**

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

- (a) ~~Whenever a~~ **When required by any** condition in ~~of~~ this permit ~~requires, an analog instrument used to measure a parameter related to the measurement of pressure drop across any part~~ **operation** of the unit or its **an air pollution** control device, the gauge employed shall have a scale such that the expected ~~normal~~ **maximum** reading for the **normal range** shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- ~~(b) Whenever a condition in this permit requires the measurement of a voltage, current, temperature, or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.~~
- (be) The Permittee may request **that** the IDEM, OAQ approve the use of ~~a pressure gauge or other~~ **an** instrument that does not meet the above specifications provided the Permittee can demonstrate **that** an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ **the** parameters.

...
C.16 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]

- (a) ~~If a regulated substance, subject to~~ **as defined in** 40 CFR 68, is present at a source in more than a threshold quantity, ~~40 CFR 68 is an applicable requirement~~ **the Permittee must comply with the applicable requirements of 40 CFR 68.**
- (b) ~~The Permittee shall verify that a Risk Management Plan or a revised plan was prepared as required by 40 CFR 68 and submitted to IDEM, OAQ.~~

~~All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

C.17 ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~
~~[326 IAC 2-7-5][326 IAC 2-7-6]~~

- (a) ~~The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start up, Shutdown, and Malfunction (SSM) Plan under 40 CFR 63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within~~

ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
- (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan to include such response steps taken.

The OMM Plan or Parametric Monitoring and SSM Plan shall be submitted within the time frames specified by the applicable 40 CFR 63 requirement.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan; or
- (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall be considered a deviation from the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.

- ~~(3) An automatic measurement was taken when the process was not operating.~~
- ~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~
- ~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~
- ~~(e) The Permittee shall record all instances when the response steps required in Section D are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~
- ~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

C.17 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.**
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:**
 - (1) initial inspection and evaluation;**
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
 - (1) monitoring results;**
 - (2) review of operation and maintenance procedures and records;**
 - (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.19 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

~~(a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3, and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period identified in 326 IAC 2-6. The emission statement shall meet the following requirements:~~

(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 ~~criteria~~ **all** pollutants ~~from the source, listed in compliance with 326 IAC 2-6-4(a) (Emission Reporting);~~
- (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 ~~Part 70~~ 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

...

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

...

(c) If there is a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, 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)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

- (1) **Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:**
 - (A) **A description of the project.**
 - (B) **Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.**
 - (C) **A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:**
 - (i) **Baseline actual emissions;**
 - (ii) **Projected actual emissions;**
 - (iii) **Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and**
 - (iv) **An explanation for why the amount was excluded, and any netting calculations, if applicable.**

- (2) **Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and**
- (3) **Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.**

...

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

- (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

...

- (f) **If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) 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) in 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 (c)(2) and (3) 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 of report.**

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, 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 (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit other than 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) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and**

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

The report for project at an existing emissions unit other than 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 (c)(2) and (3) in Section C - General Record Keeping Requirements.
- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
- (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

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

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

...

~~Part 2 MACT Application Submittal Requirement~~

~~C.24 Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)]
[40 CFR 63.56(a)][40 CFR 63.9(b)][326 IAC 2-7-12]~~

- ~~(a) The Permittee shall submit a Part 2 Maximum Achievable Control Technology (MACT) Application in accordance with 40 CFR 63.52(e)(1). The Part 2 MACT Application shall meet the requirements of 40 CFR 63.53(b).~~
- ~~(b) Notwithstanding paragraph (a), the Permittee is not required to submit a Part 2 MACT Application if the Permittee no longer meets the applicability criteria of 40 CFR 63.50 by the application deadline in 40 CFR 63.52(e)(1). For example, the Permittee would not have to submit a Part 2 MACT Application if, by the application deadline:~~
 - ~~(1) The source is no longer a major source of hazardous air pollutants, as defined in 40 CFR 63.2;~~
 - ~~(2) The source no longer includes one or more units in an affected source category for which the U.S. EPA failed to promulgate an emission standard by May 15, 2002; or~~
 - ~~(3) The MACT standard or standards for the affected source categories included at the source are promulgated.~~
- ~~(c) Notwithstanding paragraph (a), pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of permit with a case-by-case Section 112(j)~~

~~MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The initial notification shall be submitted to:~~

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204~~

~~and~~

~~United States Environmental Protection Agency, Region V
Director, Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590~~

...

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

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

- (a) When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive)** or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

- (b) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive)**.

- (c) **Permittee is also allowed one start up and one shut down per calendar year as follows:**

- (i) **When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.**

- (ii) **When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).**

- ~~(e)~~(d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

...

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

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.

- ~~(b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.~~

- (be) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

- (a) A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its emission control devices.
- (b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:
 - (1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;
 - (2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:
 - (A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).
 - (B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).
 - (C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).
 - (D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).
 - (E) Major misalignment of plates (including but not limited to a visual check of plate alignment).
 - (F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).
 - (G) Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).
 - (H) Vibrator and rapper seals (including but not limited to air in leakage, wear, and deterioration).
 - (I) TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).
 - (J) Vibrator air pressure settings.
 - (3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.

...

D.1.7 Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 1 is in operation and combusting **any amount of solid fuel or any combination of solid fuel and other fuels.**
- ...

D.1.8 Continuous Emissions Monitoring [326 IAC 3-5]

...

- (b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), **commencing with operation of the flue gas desulfurization (FGD) system**, a continuous monitoring system for the measurement of sulfur dioxide (SO₂) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

...

~~D.1.10 Nitrogen Oxides Monitoring Requirement [326 IAC 10-4-4(b)(1)][326 IAC 10-4-12(b) and (c)]
[40 CFR 75]~~

~~The Permittee shall record, report, and quality assure the data from the monitoring systems for the NO_x budget units in accordance with 326 IAC 10-4-12 and 40 CFR 75.~~

~~D.1.11 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)][40 CFR 261]~~

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

...

~~D.1.1042~~ Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per ~~shift~~ **day**, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the ~~transformer-rectifier (T-R)~~ sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit.

Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

~~D.1.1143~~ Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).

Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

- (c) **The requirements of (a) and (b), do not apply to Boiler No. 1 during startup and shutdown of Boiler No. 1 and do not apply when Boiler No. 1 is being controlled by the flue gas desulfurization (FGD) system.**

D.1.1244 SO₂ Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)][326 IAC 2-7-5(1)]

At any time the flue gas desulfurization (FGD) system is operating, if ~~Whenever~~ the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for **twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) continues in a manner typical for the boiler load and sulfur content of the coal fired.**

Flue gas desulfurization (FGD) parametric monitoring readings shall be recorded at least ~~once~~ **twice per hour-day** until the primary CEMS or a backup CEMS is brought online.

D.1.14.1 Flue Gas Desulfurization (FGD) Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~(a) Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) shall be operated as needed to maintain compliance with all applicable SO₂ emission limits.~~

~~(b) An inspection of the FGD shall be performed at least once every two (2) years, in accordance with the Preventive Maintenance Plan (PMP) prepared in accordance with Section B - Preventive Maintenance Plan (PMP).~~

~~Defective parts shall be replaced.~~

~~A record shall be kept of the results of the inspection and the part(s) replaced.~~

~~(c) Inspections shall be made whenever there is an outage of any nature lasting more than three (3) days unless such measurements have been taken within the past twelve (12) months.~~

~~(d) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection.~~

~~Discovery of an abnormal or improper condition is not a deviation from this permit.~~

~~Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

...

D.1.1345 Record Keeping Requirements

(a) To document compliance with Section C - Opacity and Conditions D.1.1 - Particulate Emission Limitations, D.1.2 - Temporary Alternative Opacity Limitations, D.1.8 - Continuous Emissions Monitoring, D.1.10+2 - Transformer-Rectifier (T-R) Sets, and D.1.11+3 - Opacity readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.1 - Particulate Emission Limitations and D.1.2 - Temporary Alternative Opacity Limitations.

(1) Data and results from the most recent stack test.

(2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.

- (3) The results of all ~~visible emission (VE) notations and~~ Method 9 visible emission readings taken during any periods of COM downtime.
- (4) All ESP parametric monitoring readings.

(b) **With the flue gas desulfurization (FGD) system:**

To document compliance with Conditions D.1.3 - Sulfur Dioxide (SO₂) and Pollution Control Project, D.1.9 - Sulfur Dioxide Emissions, and D.1.7(b) ~~14 - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) Operation,~~ the Permittee shall maintain **all SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.** ~~records in accordance with (1) through (3) below.~~

~~Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.1.3 - Sulfur Dioxide (SO₂) and Pollution Control Project and D.1.9 - Sulfur Dioxide Emissions.~~

~~The Permittee shall maintain records in accordance with (2) and (3) below during SO₂ CEM system downtime if a backup CEM is not used.~~

~~(1) All SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.~~

~~(2) All flue gas desulfurization (FGD) parametric monitoring readings taken during any periods of SO₂ CEMS downtime, in accordance with Condition D.1.14 - Flue Gas Desulfurization (FGD) Operation.~~

~~(3) Actual fuel usage during each SO₂ CEMS downtime.~~

Without the FGD:

~~Whenever the Permittee is not using CEMS data to demonstrate compliance with Condition D.1.3 - Sulfur Dioxide (SO₂),~~ ~~the Permittee shall maintain all fuel sampling and analysis data, pursuant to 326 IAC 7-2-~~ **and**

~~Whenever the Permittee is not using CEMS data to demonstrate compliance with Condition D.1.3 - Sulfur Dioxide (SO₂), the Permittee shall maintain actual fuel usage since last compliance determination period.~~

~~(c) To document compliance with Condition D.1.5 - Preventive Maintenance Plan, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.~~

(cd) **Prior to the initial start-up of the FGD:**

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

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

D.1.1416 Reporting Requirements

...

(b) **With the flue gas desulfurization (FGD) system:**

...

(c) **Without the flue gas desulfurization (FGD) system:**

...

D.2.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

(a) When building a new fire in a boiler, ~~or shutting down a boiler,~~ opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive)** or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

(b) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive)**.

(c) **Permittee is also allowed one start up and one shut down per calendar year as follows:**

(i) **When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.**

(ii) **When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).**

~~(e)~~(d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

...

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

(a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.

~~(b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.~~

(be) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

~~(a)~~ A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its emission control devices.

~~(b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:~~

- ~~(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;~~
- ~~(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:
 - ~~(A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).~~
 - ~~(B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).~~
 - ~~(C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).~~
 - ~~(D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).~~
 - ~~(E) Major misalignment of plates (including but not limited to a visual check of plate alignment).~~
 - ~~(F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).~~
 - ~~(G) Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).~~
 - ~~(H) Vibrator and rapper seals (including but not limited to air in-leakage, wear, and deterioration).~~
 - ~~(I) TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).~~
 - ~~(J) Vibrator air pressure settings.~~~~
- ~~(3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.~~

...

D.2.7 Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 2 is in operation and combusting **any amount of solid fuel or any combination of solid fuel and other fuels.**

...

D.2.8 Continuous Emissions Monitoring [326 IAC 3-5]

...

- (b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), **commencing with operation of the flue gas desulfurization (FGD) system**, a continuous monitoring system for the measurement of sulfur dioxide (SO₂) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

...

~~D.2.10 Nitrogen Oxides Monitoring Requirement [326 IAC 10-4-4(b)(1)][326 IAC 10-4-12(b) and (c)]
[40 CFR 75]~~

~~The Permittee shall record, report, and quality assure the data from the monitoring systems for the NO_x budget units in accordance with 326 IAC 10-4-12 and 40 CFR 75.~~

~~D.2.11 Cleaning Waste Characterization [326 IAC 2-1-1-5(a)(4)][40 CFR 261]~~

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

...

~~D.2.1042 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~(a) The ability of the ESP to control particulate emissions shall be monitored once per shift day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.~~

~~(b) Reasonable response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the percentage of T-R sets in service falls below ninety percent (90%).~~

~~T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit.~~

~~Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

~~D.2.1143 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~(a) Appropriate response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.~~

~~In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).~~

~~Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.~~

~~(b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.~~

~~Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

~~(c) **The requirements of (a) and (b), do not apply to Boiler No. 2 during startup and shutdown of Boiler No. 2 and do not apply when Boiler No. 2 is being controlled by the flue gas desulfurization (FGD) system.**~~

D.2.1244 SO₂ Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)][326 IAC 2-7-5(1)]

At any time the flue gas desulfurization (FGD) system is operating, if ~~Whenever the SO₂~~ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments **for twenty-four (24) hours or more**, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) parametric monitoring readings shall be recorded at least ~~once~~ **twice per hour-day** until the primary CEMS or a backup CEMS is brought online.

D.2.14.1 Flue Gas Desulfurization (FGD) Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~(a) Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) shall be operated as needed to maintain compliance with all applicable SO₂ emission limits.~~

~~(b) An inspection of the FGD shall be performed at least once every two (2) years, in accordance with the Preventive Maintenance Plan (PMP) prepared in accordance with Section B - Preventive Maintenance Plan (PMP).~~

~~Defective parts shall be replaced.~~

~~A record shall be kept of the results of the inspection and the part(s) replaced.~~

~~(c) Inspections shall be made whenever there is an outage of any nature lasting more than three (3) days unless such measurements have been taken within the past twelve (12) months.~~

~~(d) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection.~~

~~Discovery of an abnormal or improper condition is not a deviation from this permit.~~

~~Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

...

D.2.1345 Record Keeping Requirements

(a) To document compliance with Section C - Opacity and Conditions D.2.1 - Particulate Emissions Limitations, D.2.2 - Temporary Alternative Opacity Limitations, D.2.8 - Continuous Emissions Monitoring, D.2.1042 - Transformer-Rectifier (T-R) Sets, and D.2.1143 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.2.1 - Particulate Emissions Limitations, and D.2.2 - Temporary Alternative Opacity Limitations.

(1) Data and results from the most recent stack test.

(2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.

(3) The results of all ~~visible emission (VE) notations and~~ Method 9 visible emission readings taken during any periods of COM downtime.

(4) All ESP parametric monitoring readings.

(b) **With the flue gas desulfurization (FGD) system:**

To document compliance with Conditions D.2.3 - Sulfur Dioxide (SO₂) and Pollution Control Project, D.2.9 - Sulfur Dioxide Emissions, and D.2.7(b)14 - **Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) Operation**, the Permittee shall maintain **all SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.**~~records in accordance with (1) through (3) below.~~

~~Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.2.3 - Sulfur Dioxide (SO₂), and D.2.9 - Sulfur Dioxide Emissions.~~

~~The Permittee shall maintain records in accordance with (2) and (3) below during SO₂-CEM system downtime if a backup CEM is not used.~~

~~(1) All SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.~~

~~(2) All flue gas desulfurization (FGD) parametric monitoring readings taken during any periods of SO₂-CEMS downtime, in accordance with Condition D.2.14 - Flue Gas Desulfurization (FGD) Operation.~~

~~(3) Actual fuel usage during each SO₂-CEMS downtime.~~

Without the FGD:

~~Whenever the Permittee is not using CEMS data to demonstrate compliance with Condition D.2.3 - Sulfur Dioxide (SO₂),~~ **The Permittee shall maintain all fuel sampling and analysis data, pursuant to 326 IAC 7-2. and**

~~Whenever the Permittee is not using CEMS data to demonstrate compliance with Condition D.2.3 - Sulfur Dioxide (SO₂), the Permittee shall maintain actual fuel usage since last compliance determination period.~~

~~(e) To document compliance with Condition D.2.5 - Preventive Maintenance Plan, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.~~

(cd) **Prior to the initial start-up of the FGD:**

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

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

D.2.1416 Reporting Requirements

...

(b) **With the flue gas desulfurization (FGD) system:**

...

(c) **Without the flue gas desulfurization (FGD) system:**

...

SECTION D.3 FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a **flue gas conditioning system** and an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions and exhausting to a new stack, identified as Stack 3.

This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

...

D.3.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (a) When building a new fire in a boiler, ~~or shutting down a boiler,~~ opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive)** or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

- (b) When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive)**.

- (c) **Permittee is also allowed one start up and one shut down per calendar year as follows:**

- (i) **When building a new fire in a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.**

- (ii) **When shutting down a boiler, opacity may exceed the 40% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).**

- ~~(e)~~(d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

...

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

...

- ~~(b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.~~

- (be) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

- (a) A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its emission control devices.
- (b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:
 - (1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;
 - (2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:
 - (A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).
 - (B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).
 - (C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).
 - (D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).
 - (E) Major misalignment of plates (including but not limited to a visual check of plate alignment).
 - (F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).
 - (G) Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).
 - (H) Vibrator and rapper seals (including but not limited to air in leakage, wear, and deterioration).
 - (I) TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).
 - (J) Vibrator air pressure settings.
 - (3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.

...

D.3.7 Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 3 is in operation and combusting **any amount of solid fuel or any combination of solid fuel and other fuels**.
- ...

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

...

- (b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), **commencing with operation of the flue gas desulfurization unit (FGD)**, a continuous monitoring system for the measurement of sulfur dioxide (SO₂) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

...

~~D.3.10 Nitrogen Oxides Monitoring Requirement [326 IAC 10-4-4(b)(1)][326 IAC 10-4-12(b) and (c)]
[40 CFR 75]~~

~~The Permittee shall record, report, and quality assure the data from the monitoring systems for the NO_x budget units in accordance with 326 IAC 10-4-12 and 40 CFR 75.~~

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

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

...

~~D.3.1042~~ Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per ~~shift~~ **day**, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the ~~transformer-rectifier (T-R)~~ sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit.

Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

~~D.3.1143~~ Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%).

Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

- (c) **The requirements of (a) and (b), do not apply to Boiler No. 3 during startup and shutdown of Boiler No. 3 and do not apply when Boiler No. 3 is being controlled by the flue gas desulfurization (FGD) system.**

D.3.1244 SO₂ Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)][326 IAC 2-7-5(1)]

At any time the flue gas desulfurization (FGD) system is operating, if ~~Whenever~~ the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for **twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the flue gas desulfurization (FGD) continues in a manner typical for the boiler load and sulfur content of the coal fired.**

Flue gas desulfurization (FGD) parametric monitoring readings shall be recorded at least ~~once~~ **twice per hour-day** until the primary CEMS or a backup CEMS is brought online.

D.3.14.1 Flue Gas Desulfurization (FGD) Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

~~(a) Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) shall be operated as needed to maintain compliance with all SO₂ applicable emission limits.~~

~~(b) An inspection of the FGD shall be performed at least once every two (2) years, in accordance with the Preventive Maintenance Plan (PMP) prepared in accordance with Section B - Preventive Maintenance Plan (PMP).~~

~~Defective parts shall be replaced.~~

~~A record shall be kept of the results of the inspection and the part(s) replaced.~~

~~(c) Inspections shall be made whenever there is an outage of any nature lasting more than three (3) days unless such measurements have been taken within the past twelve (12) months.~~

~~(d) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection.~~

~~Discovery of an abnormal or improper condition is not a deviation from this permit.~~

~~Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

...

D.3.1345 Record Keeping Requirements

(a) To document compliance with Section C - Opacity and Conditions D.3.1 - Particulate Emissions Limitation, D.3.2 - Temporary Alternative Opacity Limitations, D.3.8 - Continuous Emissions Monitoring, D.3.10+2 - Transformer-Rectifier (T-R) Sets, and D.3.1143 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.3.1- Particulate Emissions Limitation, and D.3.2 - Temporary Alternative Opacity Limitations.

(1) Data and results from the most recent stack test.

(2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.

- (3) The results of all ~~visible emission (VE) notations and~~ Method 9 visible emission readings taken during any periods of COM downtime.
- (4) All ESP parametric monitoring readings.

(b) **With the flue gas desulfurization (FGD) system:**

To document compliance with Conditions D.3.3 - Sulfur Dioxide (SO₂) and Pollution Control Project, D.3.9 - Sulfur Dioxide Emissions, and D.3.7(b) ~~14 - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD) Operation~~, the Permittee shall maintain **all SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.** ~~records in accordance with (1) through (3) below.~~

~~Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.3.3 - Sulfur Dioxide (SO₂) and Pollution Control Project and D.3.9 - Sulfur Dioxide Emissions.~~

~~The Permittee shall maintain records in accordance with (2) and (3) below during SO₂ CEM system downtime if a backup CEM is not used.~~

- (1) ~~All SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g).~~
- (2) ~~All flue gas desulfurization (FGD) parametric monitoring readings taken during any periods of SO₂ CEMS downtime, in accordance with Condition D.3.14 - Flue Gas Desulfurization (FGD) Operation.~~
- (3) ~~Actual fuel usage during each SO₂ CEMS downtime.~~

Without the FGD:

~~Whenever the Permittee is not using CEMS data to demonstrate compliance with Condition D.3.3 - Sulfur Dioxide (SO₂),~~ ~~the Permittee shall maintain all fuel sampling and analysis data, pursuant to 326 IAC 7-2-~~ **and**

~~Whenever the Permittee is not using CEMS data to demonstrate compliance with Condition D.3.3 - Sulfur Dioxide (SO₂), the Permittee shall maintain actual fuel usage since last compliance determination period.~~

- ~~(c) To document compliance with Condition D.3.5 - Preventive Maintenance Plan, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.~~

(cd) **Prior to the initial start-up of the FGD:**

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

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

D.3.1416 Reporting Requirements

... (b) **With the flue gas desulfurization (FGD) system:**

... (c) **Without the flue gas desulfurization (FGD) system:**

SECTION D.4 FACILITY OPERATION CONDITIONS

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

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D during normal operations, and exhausting to Stack B during startup, shutdown, or other periods when the FGD is not in operation.

Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

... D.4.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

(a) During boiler startups an exemption from the 40% opacity limit is allowed for up to fifty (50) six (6)-minute averaging periods, **consecutive or non-consecutive** or until the flue gas temperature entering the electrostatic precipitator reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first. ~~This exemption period includes the sum total of Stack "B" and Stack "D" non-overlapping exceedance periods.~~

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

(b) During boiler shutdowns, an exemption from the 40% opacity limitation established in 326 IAC 5-1-2 is allowed for a period not to exceed forty (40) six (6)-minute averaging periods, **consecutive or non-consecutive**. ~~This exemption period includes the sum total of Stack "B" and Stack "D" non-overlapping exceedance periods.~~

(c) **Permittee is also allowed one start up and one shut down per calendar year as follows:**

(i) **During boiler startups an exemption from the 40% opacity limit is allowed for up to seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature entering the electrostatic precipitator reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.**

(ii) **During boiler shutdowns, an exemption from the 40% opacity limitation established in 326 IAC 5-1-2 is allowed for a period not to exceed five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).**

~~(e)~~(d) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2.

...

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

...

- ~~(b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.~~
- (be) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

- ~~(a) A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its emission control devices.~~
- ~~(b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:~~
 - ~~(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;~~
 - ~~(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:~~
 - ~~(A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).~~
 - ~~(B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).~~
 - ~~(C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).~~
 - ~~(D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).~~
 - ~~(E) Major misalignment of plates (including but not limited to a visual check of plate alignment).~~
 - ~~(F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).~~
 - ~~(G) Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).~~
 - ~~(H) Vibrator and rapper seals (including but not limited to air in leakage, wear, and deterioration).~~
 - ~~(I) TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).~~
 - ~~(J) Vibrator air pressure settings.~~
 - ~~(3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.~~

- (4) ~~Flue gas conditioning system (FGCS) components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months.~~

...

D.4.7 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 4 is in operation and combusting **any amount of solid fuel or any combination of solid fuel and other fuels.**

D.4.8 Flue Gas Desulfurization (FGD) System [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.

...

~~D.4.11 Nitrogen Oxides Monitoring Requirement [326 IAC 10-4-4(b)(1)][326 IAC 10-4-12(b) and (c)]
[40 CFR 75]~~

~~The Permittee shall record, report, and quality assure the data from the monitoring systems for the NO_x budget units in accordance with 326 IAC 10-4-12 and 40 CFR 75.~~

~~D.4.12 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)][40 CFR 261]~~

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

...

D.4.1143 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per ~~shift~~ **day**, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the ~~transformer-rectifier (T-R)~~ sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the percentage of T-R sets in service falls below ninety percent (90%).

T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

D.4.1244 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods.

...

- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit.

Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

- (c) **The requirements of (a) and (b), do not apply to Boiler No. 4 during startup and shutdown of Boiler No. 4 and do not apply when Boiler No. 4 is being controlled by the flue gas desulfurization (FGD) system.**

~~D.4.15 Scrubber Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

- ~~(a) Except as otherwise provided by statute or rule or in this permit, the scrubber shall be operated as needed to maintain compliance with all SO₂ emission limits.~~
- ~~(b) An inspection of the scrubber shall be performed at least once every two years, in accordance with the Preventive Maintenance Plan prepared in accordance with Section B- Preventive Maintenance Plan.~~

~~Defective parts shall be replaced.~~

~~A record shall be kept of the results of the inspection and the part(s) replaced.~~

- ~~(c) Inspections shall be made whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past twelve months.~~
- ~~(d) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection.~~

~~Discovery of an abnormal or improper condition is not a deviation from this permit.~~

~~Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

~~D.4.1346 SO₂ Monitor Downtime [326 IAC 2-7-6][326 IAC 2-7-5(1)]~~

~~Whenever the SO₂ continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments **for twenty-four (24) hours or more**, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the **flue gas desulfurization (FGD) system scrubber** continues in a manner typical for the boiler load and sulfur content of the coal fired.~~

~~**Flue gas desulfurization (FGD) system Scrubber** parametric monitoring readings shall be recorded at least ~~once~~ **twice** per ~~hour~~ **day** until the primary CEMS or a backup CEMS is brought online.~~

...

~~D.4.1417 Record Keeping Requirements~~

- ~~(a) To document compliance with Section C - Opacity and Conditions D.4.1 - Particulate Emissions Limitation, D.4.2 - Temporary Alternative Opacity Limitations, D.4.9 - Continuous Emissions Monitoring, D.4.1143 - Transformer-Rectifier (T-R) Sets, and D.4.1244 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.~~

~~Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.4.1 - Particulate Emissions Limitation, and D.4.2 - Temporary Alternative Opacity Limitations.~~

- ~~(1) Data and results from the most recent stack test.~~
- ~~(2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5.~~
- ~~(3) The results of all ~~visible emission (VE) notations and~~ Method 9 visible emission readings taken during any periods of COM downtime.~~
- ~~(4) All ESP parametric monitoring readings.~~

- (b) To document compliance with SO₂ Conditions D.4.3 - Sulfur Dioxide (SO₂), D.4.9 - Continuous Emissions Monitoring, D.4.10 - Sulfur Dioxide Emissions, D.4.815 - **Flue Gas Desulfurization (FGD) System Scrubber Operation**, and D.4.1346 - SO₂ Monitor Downtime, the Permittee shall maintain records in accordance with (1) through (3) below.

Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.4.3 - Sulfur Dioxide (SO₂), and D.4.10 - Sulfur Dioxide Emissions. The Permittee shall maintain records in accordance with (2) and (3) below during SO₂ CEM system downtime if a backup CEM is not used.

- (1) All SO₂ continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g),
 - (2) **All flue gas desulfurization (FGD) system scrubber**-parametric monitoring readings taken during any periods of CEM downtime, in accordance with Condition D.4.1346 - SO₂ Monitor Downtime.
 - (3) Actual fuel usage during each SO₂ CEM downtime.
- (c) ~~Whenever the flue gas conditioning agent is in use, the Permittee shall maintain records of the injection rate of the flue gas conditioning agent, in parts per million (ppm), on an hourly basis.~~
- (d) ~~To document compliance with Condition D.4.5 - Preventive Maintenance Plan, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.~~
- (ce) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.1548 Reporting Requirements

...

D.5.3 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (a) When building a new fire in a boiler, ~~or shutting down a boiler,~~ opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive)** or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.

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

- (b) When shutting down a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed **a total of four (4) hours (forty (40) six (6)-minute averaging periods, consecutive or non-consecutive).**
- (c) **Permittee is also allowed one start up and one shut down per calendar year as follows:**
- (i) **When building a new fire in a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of seven (7) hours (seventy (70) six (6)-minute averaging periods, consecutive or non-consecutive) or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit, whichever occurs first.**

(ii) **When shutting down a boiler, opacity may exceed the 20% opacity limitation established in 326 IAC 5-1-2 for a period not to exceed a total of five (5) hours (fifty (50) six (6)-minute averaging periods, consecutive or non-consecutive).**

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

...

D.5.5 Operation Standards [326 IAC 2-1.1-5(a)(4)][~~40 CFR 261~~][~~40 CFR 279~~][329 IAC 13]

(a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.

~~(b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.~~

(be) Any boiler or condenser tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

...

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

(a) A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its emission control devices.

~~(b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:~~

~~(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;~~

~~(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:~~

~~(A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).~~

~~(B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).~~

~~(C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).~~

~~(D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).~~

~~(E) Major misalignment of plates (including but not limited to a visual check of plate alignment).~~

~~(F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).~~

- ~~(G) — Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).~~
- ~~(H) — Vibrator and rapper seals (including but not limited to air in-leakage, wear, and deterioration).~~
- ~~(I) — TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).~~
- ~~(J) — Vibrator air pressure settings.~~
- ~~(3) — Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.~~
- ~~(4) — Flue gas conditioning system (FGCS) components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months.~~

...

~~D.5.9 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]~~

~~Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that the Boiler No. 5 is in operation and combusting **any amount of solid fuel or any combination of solid fuel and other fuels.**~~

~~D.5.10 Flue Gas Desulfurization (FGD) System [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~Except as otherwise provided by statute or rule or in this permit, the flue gas desulfurization (FGD) system shall be operated as needed to maintain compliance with applicable SO₂ emission limits.~~

...

~~D.5.13 Nitrogen Oxides Monitoring Requirement [326 IAC 10-4-4(b)(1)][326 IAC 10-4-12(b) and (c)]
[40 CFR 75]~~

~~The Permittee shall record, report, and quality assure the data from the monitoring systems for the NO_x budget units in accordance with 326 IAC 10-4-12 and 40 CFR 75.~~

~~D.5.14 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)][40 CFR 261]~~

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

...

~~D.5.1345 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

- ~~(a) The ability of the ESP to control particulate emissions shall be monitored once per shift **day**, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the ~~transformer-rectifier (T-R)~~ sets.~~
- ~~(b) Reasonable response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** Compliance Response Plan Preparation, Implementation, Records, and Reports whenever the percentage of T-R sets in service falls below ninety percent (90%). T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** Compliance Response Plan Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

D.5.1416 Opacity Readings [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ whenever the opacity exceeds twenty-five percent (25%) for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding twenty-five percent (25%), response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, adjustment of flue gas conditioning rate, and ESP T-R sets being returned to service.
- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.
- (c) **The requirements of (a) and (b), do not apply to Boiler No. 5 during startup and shutdown of Boiler No. 5 and do not apply when Boiler No. 5 is being controlled by the flue gas desulfurization (FGD) system.**

D.5.17 ~~Scrubber Operation [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

- ~~(a) Except as otherwise provided by statute or rule or in this permit, the scrubber shall be operated as needed to maintain compliance with all SO₂ emission limits.~~
- ~~(b) An inspection of the scrubber shall be performed at least once every two years, in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan. Defective parts shall be replaced.~~

~~A record shall be kept of the results of the inspection and the part(s) replaced.~~
- ~~(c) Inspections shall be made whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past twelve months.~~
- ~~(d) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

D.5.1548 SO₂ Monitor Downtime [326 IAC 2-7-6][326 IAC 2-7-5(1)]

Whenever the SO₂ continuous emission monitoring system (**CEMS**) is malfunctioning or down for repairs or adjustments **for twenty-four (24) hours or more**, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the **flue gas desulfurization (FGD) system scrubber** continues in a manner typical for the boiler load and sulfur content of the coal fired.

Flue gas desulfurization (FGD) system Scrubber parametric monitoring readings shall be recorded at least ~~once~~ **twice** per ~~hour~~ **day** until the primary CEMS or a backup CEMS is brought online.

~~D.5.19 NO_x Monitoring System Downtime [326 IAC 2-2][326 IAC 2-7-6][326 IAC 2-7-5(3)]~~

~~In instances of NO_x continuous emission monitoring system (CEMS) downtime, the Permittee shall report the NO_x mass emissions in accordance with the procedures regulated by 40 CFR Part 75, Appendix D (Optional SO₂ Emissions Data Protocol) for fuel flow meters requirements, 40 CFR Part 75, Appendix E (Optional NO_x Emissions Estimation Protocol) for emission rate curve establishment, and Appendix G (Determination of CO₂ Emissions).~~

~~NO_x mass emissions reported shall be based on the fuel and unit specific NO_x emission rates ("load curve") established during the latest stack test.~~

...

~~D.5.1620~~ Record Keeping Requirements

(a) To document compliance with Section C - Opacity and Conditions D.5.1- New Source Performance Standard (NSPS), D.5.2 - Particulate, D.5.3 - Temporary Alternative Opacity Limitations, D.5.11 - Continuous Emissions Monitoring, ~~D.5.14 - Cleaning Waste Characterization~~, and D.5.1315 - Transformer-Rectifier (T-R) Sets, the Permittee shall maintain records in accordance with (1) through (4) below.

Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.5.1 - New Source Performance Standard (NSPS), D.5.2 - Particulate, and D.5.3 - Temporary Alternative Opacity Limitations.

...

(3) The results of all ~~visible emission (VE) notations and~~ Method 9 visible emission readings taken during any periods of COM downtime.

...

(b) To document compliance with Conditions D.5.1 - New Source Performance Standard (NSPS), D.5.4 - Sulfur Dioxide (SO₂), D.5.10 - Flue Gas Desulfurization (FGD) System, D.5.11 - Continuous Emissions Monitoring, D.5.12 - Sulfur Dioxide Emissions, **and** D.5.1416 - Opacity Readings, ~~and D.5.17 - Scrubber Operation~~, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.5.4 - Sulfur Dioxide (SO₂), and D.5.10 - Flue Gas Desulfurization (FGD) System. The Permittee shall maintain records in accordance with (2) and (3) below during SO₂ CEM system downtime if a backup CEM is not used.

...

(2) All **flue gas desulfurization (FGD) system** ~~scrubber~~-parametric monitoring readings taken during any periods of CEM downtime, in accordance with Condition D.5.1548 - SO₂ Monitor Downtime.

...

~~(c) Whenever the flue gas conditioning agent is in use, the Permittee shall maintain records of the injection rate of the flue gas conditioning agent, in parts per million (ppm), on an hourly basis.~~

~~(d) To document compliance with Condition D.5.7 - Preventive Maintenance Plan, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.~~

(ce) **Prior to the initial start-up of the FGD:**

Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

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

D.5.1724 Reporting Requirements

...

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

...

SECTION D.6 FACILITY OPERATION CONDITIONS

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

A coal storage and handling system, with a nominal throughput of 6000 tons of coal per hour, consisting of the following equipment:

...

- (2) Two (2) active piles, each with a drop point to a hopper identified as DP-1 and DP-16, with each drop point enclosed and ~~controlled by a baghouse, and~~ exhausting to the ambient air.
- (3) Three (3) storage piles, having a combined storage capacity including the active piles of 4,000,000 tons, with fugitive emissions controlled by watering trucks.
- (4) Four (4) enclosed hoppers, each with a drop point to conveyors identified as DP-2, DP-6, DP-17 and DP-26, with each drop point enclosed ~~and controlled by a baghouse, and~~ exhausting to the ambient air.
- (5) An enclosed conveyor system, with 18 drop points identified as DP-3, DP-4, DP-7 through DP-15, and DP-18 through DP-24, with each drop point enclosed ~~and controlled by a baghouse~~ excluding the two (2) active pile conveyors which have the drop points (DP-18 and DP-22) controlled by telescopic chutes, and exhausting to the ambient air.
- (6) Five (5) enclosed coal bunkers, each with a nominal maximum capacity of 15,000 tons of coal. Bunkers are loaded via a conveyor tripper system with a total capacity of 3,000 tons per hour to the units 1 and 2 bunkers, and 3,000 tons per hour to the units 3, 4 and 5 bunkers. ~~Particulate matter generated from loading bunkers is controlled with a baghouse, and exhausts to the ambient air.~~

...

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~the baghouses,~~ the watering system, and the telescopic chutes.

...

D.6.3 Particulate Control [326 IAC 2-7-6(6)]

(a) ~~Except as otherwise provided by statute or rule or in this permit, the baghouses for PM control shall be in operation and control emissions at all times the associated coal processing or drop point conveyors are in operation.~~

(b) ~~Telescoping chutes shall be kept within a few feet of the top of the coal piles at all times drop points DP-18 and DP-22 are in operation.~~

...

D.6.4 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the transfer points ~~baghouse exhausts~~ shall be performed once per ~~shift~~ **week** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

If abnormal emissions are observed at the transfer points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (b) Visible emission notations of the coal unloading station(s) doorways and drop points shall be performed once per ~~shift-week~~ during normal daylight operations. A trained employee shall record whether any emissions are observed.

If abnormal emissions are observed from the coal unloading station doorways and drop points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

...

- ~~(f) If any emissions are observed from the coal unloading station doorways and drop points, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~
- ~~(g) If abnormal emissions are observed at any baghouse exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

D.6.5 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- ~~(a) The Permittee shall record the total static pressure drop across each of the baghouses used in conjunction with the coal transfer drop points at least once per shift when the coal handling is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~
- ~~(b) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.~~

D.6.6 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- ~~(a) An inspection shall be performed each calendar quarter of all bags controlling particulate emissions from the coal processing or conveying. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

- (b) ~~—— If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps in accordance with Section C – Compliance Response Plan – Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C – Compliance Response Plan – Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

~~D.6.7 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~In the event that bag failure has been observed:~~

- (a) ~~—— For multi-compartment units, the affected baghouse compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C – Compliance Response Plan – Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~
- (b) ~~—— For single-compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~

...

D.6.58 Record Keeping Requirements

- (a) ~~—— To document compliance with Section C - Opacity, Section C -Fugitive Dust Emissions, and Condition D.6.4 - Visible Emissions Notations, the Permittee shall maintain records of the visible emission notations of the transfer points, baghouse exhausts, railcar unloading stations and all response steps taken and the outcome for each.~~
- (b) ~~—— To document compliance with Condition D.6.5 - Baghouse Parametric Monitoring, the Permittee shall maintain records of the total static pressure drop across each baghouse.~~
- (c) ~~—— To document compliance with Condition D.6.6 - Baghouse Inspections, the Permittee shall maintain records of the results of the baghouse inspections.~~
- (d) ~~—— To document compliance with Condition D.6.2 - Preventive Maintenance Plan, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~
- (e) ~~—— All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

SECTION D.7 FACILITY OPERATION CONDITIONS

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

A limestone storage and handling system, consisting of the following equipment:

- ...
- (2) Two (2) enclosed hoppers, each with a drop point to conveyors identified as LSDP-2 and LSDP-5, with a nominal throughput of 200 tons per hour, with each drop point enclosed and ~~controlled by a baghouse, and~~ exhausting to the ambient air.
- ...
- (4) An enclosed conveyor system, with four (4) drop points identified as LSDP-3 and LSDP-8 through LSDP-10, with each drop point enclosed and ~~controlled by a baghouse, and~~ exhausting to the ambient air.
- (5) One (1) enclosed ball mill, with a drop point to a conveyor identified as LSDP-6, with the drop point enclosed and ~~controlled by a baghouse, and~~ exhausting to the ambient air.
- ...

...
D.7.1 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants
[326 IAC 12][40 CFR 60, Subpart OOO]

- ...
- (b) When an owner or operator replaces an existing facility with a piece of equipment that is of larger size, as defined in 40 CFR 60.671, having the same function as the existing facility, or an owner or operator replaces all existing facilities in a production line with new facilities, ~~then~~ the replacement is subject to 40 CFR 60.672 (Standard for Particulate Matter), 40 CFR 60.674 (Monitoring of Operations), 40 CFR 60.675 (Test Methods and Procedures), and 40 CFR 60.676 (Reporting and Record keeping) of Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

...
D.7.4 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

- Pursuant to 326 IAC 6-4-2:
- (a) Any ash storage pond area generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:
 - (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

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

...
~~D.7.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]~~

~~A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for the emission control devices.~~

...
D.7.56 Particulate Control [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, to demonstrate compliance with 326 IAC 6-3-2:

- ~~(a) Pursuant to Construction Permit 051-2422-00013, issued on June 25, 1992, the baghouses and bin vent filters shall be in operation and control PM emissions at all times the associated limestone, lime or flyash handling facilities, including the ball mill and drop point conveyors, are in operation.~~

(a)——The telescopic chute for all conveyors shall be kept within a few feet of the top of the limestone piles at all times the limestone handling system is in operation.

D.7.67 NSPS Compliance Provisions [40 CFR 60, Subpart 000]

Compliance with the PM and opacity emission limitations in Condition D.7.1 - New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants, shall be determined by the methods and procedures specified in 40 CFR 60.675.

...

D.7.78 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

(a) Visible emission notations of the transfer points and ball mill baghouse exhausts shall be performed once per ~~shift~~**week** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

If abnormal emissions are observed at any baghouse exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) Visible emission notations of the partially enclosed railcar limestone unloading station exhausts shall be performed once per ~~shift~~**week** during normal daylight operations. A trained employee shall record whether ~~emissions are normal or abnormal~~ **any emissions are observed**.

(c)——If any **abnormal** visible emissions of dust are observed exiting the limestone unloading station doors, the Permittee shall take reasonable response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~. 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** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

(cd) Visible emission notations of the ash storage pond area(s) shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(e)——If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~. Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

(df) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.

(eg) 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.

(fh) 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.

- (i) ~~If abnormal emissions are observed at any baghouse exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.~~

~~D.7.9 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

- (a) ~~The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the limestone transfer drop points at least once per shift when the limestone handling is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~
- (b) ~~The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.~~

~~D.7.10 Baghouse Inspections [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

- (a) ~~An inspection shall be performed within the last month of each calendar quarter of all bags controlling PM emissions from the limestone processing or conveying. All defective bags shall be replaced.~~
- (b) ~~If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

~~D.7.11 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~In the event that bag failure has been observed:~~

- (a) ~~For multi-compartment units, the affected baghouse compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~
- (b) ~~For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and~~

~~the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

...
D.7.812 Record Keeping Requirements

- ~~(a) — To document compliance with Section C - Opacity and Condition D.7.8 - Visible Emissions Notations, the Permittee shall maintain records of the visible emission notations of the transfer points, baghouse exhausts, limestone unloading station doors, fly ash storage pond area(s) and all response steps taken and the outcome for each.~~
- ~~(b) — To document compliance with Condition D.7.9 - Baghouse Parametric Monitoring, the Permittee shall maintain records of the total static pressure drop across each baghouse.~~
- ~~(c) — To document compliance with Condition D.7.10 - Baghouse Inspections, the Permittee shall maintain records of the results of the baghouse inspections.~~
- ~~(d) — To document compliance with Condition D.7.5 - Preventive Maintenance Plan, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~
- ~~(e) — All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

...
D.8.1 Particulate [326 IAC 6-3-2]

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

...
D.9.2 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants
[326 IAC 12][40 CFR Part 60, Subpart OOO]

- ~~(b) When an owner or operator replaces an existing facility with a piece of equipment that is of larger size, as defined in 40 CFR 60.671, having the same function as the existing facility, or an owner or operator replaces all existing facilities in a production line with new facilities, then the replacement is subject to 40 CFR 60.672 (Standard for Particulate Matter), 40 CFR 60.674 (Monitoring of Operations), 40 CFR 60.675 (Test Methods and Procedures), and 40 CFR 60.676 (Reporting and Record keeping) of Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants.~~

...
D.9.3 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

- (a) Pursuant to 326 IAC 6-4-2, the Permittee shall be in violation of 326 IAC 6-4 if any of the following criteria are violated:
 - (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

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

...
D.9.7 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of the limestone transfer points shall be performed once per shift ~~week~~ during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

...

- (e) If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~. Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.
- (f) **If abnormal emissions are observed from the limestone transfer points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.**

...

D.9.8 Record Keeping Requirements

- (a) The Permittee shall maintain records of the once per ~~shift-week~~ visible emission notations of the limestone transfer points, and all response steps taken and the outcome for each and make such records available upon request to IDEM, OAQ, and the US EPA.
- ~~(b) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.~~
- (be) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.9.9 Reporting Requirements

...

Reports are to be sent to:

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

...

D.10.1 Particulate [326 IAC 6-3-2]

...

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed ~~63 pounds per hour~~ **the emission rate derived by the equation above**, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

D.10.2 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

- (a) Pursuant to 326 IAC 6-4-2, the Permittee shall be in violation of 326 IAC 6-4 if any of the following criteria are violated:
 - (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

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

...

D.10.5 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of the gypsum transfer points shall be performed once per ~~shift~~ **week** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- ...
- (e) If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~. Failure to take response steps in accordance with Section C - **Response to Excursions or Exceedances** ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.
- (f) **If abnormal emissions are observed from the gypsum transfer points, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.**

D.10.6 Record Keeping Requirements

- (a) The Permittee shall maintain records of the once per ~~shift~~ **week** visible emission notations of the gypsum transfer points, and all response steps taken and the outcome for each and make such records available upon request to IDEM, OAQ, and the US EPA.
- ~~(b) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.~~
- (be) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION E TITLE IV ACID RAIN PROGRAM CONDITIONS

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

- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with **a flue gas conditioning system and** an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 3.
- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to ~~stack D during normal operations, and exhausting to Stack B during startup, shutdown, or other periods when the FGD is not in operation.~~

SECTION F SO₃ MITIGATION PLAN

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

...
(c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a **flue gas conditioning system and** an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions, and exhausting to a new stack, identified as Stack 3.

...
(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D during normal operations, and exhausting to Stack B during startup, shutdown, or other periods when the FGD is not in operation.

Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

...
SECTION G Nitrogen Oxides Budget Trading Program - NO_x Budget Permit for NO_x Budget Units Under 326 IAC 10-4-1(a)

ORIS Code: 6113

NO_x Budget Source [326 IAC 2-7-5(15)]

...
(c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with a **flue gas conditioning system and** an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO₂) emissions and exhausting to a new stack, identified as Stack 3. This FGD system for Boiler No. 3 is anticipated to begin operation in December 2006. Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 5897 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, equipped with Selective Catalytic Reduction (SCR) for control of NO_x during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D during normal operations, and exhausting to Stack B during startup, shutdown, or other periods when the FGD is not in operation. Boiler No. 4 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM).

...
G.7 Reporting Requirements [326 IAC 10-4-4(e)]

...
(c) Where 326 IAC 10-4 requires a submission to IDEM, OAQ, the NO_x authorized account representative shall submit required information to:

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

...

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
100 North Senate Avenue, **MC 61-53 IGCN 1003**, Indianapolis, Indiana 46204-2251

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: ~~PSI~~ **Duke Energy Indiana, Inc. - Gibson Generating Station**
Source Address: ~~1097 N 950 W, S.R. 64 W & C.R. 975, Owensville, Indiana 4766570~~
Mailing Address: c/o **Patrick Coughlin** ~~Steven Pearl~~, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: T051-7175-00013

| |
|---|
| <p>This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.</p> <p>Please check what document is being certified:</p> <p><input type="checkbox"/> Annual Compliance Certification Letter</p> <p><input type="checkbox"/> Test Result (specify) _____</p> <p><input type="checkbox"/> Report (specify) _____</p> <p><input type="checkbox"/> Notification (specify) _____</p> <p><input type="checkbox"/> Affidavit (specify) _____</p> <p><input type="checkbox"/> Other (specify) _____</p> |
|---|

| |
|--|
| <p>I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.</p> |
| Signature: |
| Printed Name: |
| Title/Position: |
| Telephone: |
| Date: |

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY, COMPLIANCE BRANCH
100 North Senate Avenue, **MC 61-53 IGCN 1003**, Indianapolis, Indiana 46204-2251
Phone: 317-233-~~56740178~~ Fax: 317-233-~~59676865~~

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: ~~PSI~~ **Duke Energy Indiana, Inc. - Gibson Generating Station**
Source Address: **1097 N 950 W, S.R. 64 W & C.R. 975, Owensville, Indiana 4766570**
Mailing Address: c/o ~~Patrick Coughlin~~ **Steven Pearl**, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: T051-7175-00013

This form consists of 2 pages

Page 1 of 2

| |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-56740178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-59676865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY, COMPLIANCE DATA SECTION
 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251**

**Part 70 Quarterly Report for Use When Combusting Coal
 (Prior to FGD Operation)**

Source Name: ~~PSI~~ **Duke Energy Indiana, Inc. - Gibson Generating Station**
 Source Address: **1097 N 950 W, S.R. 64 W & C.R. 975, Owensville, Indiana 47665570**
 Mailing Address: c/o ~~Patrick Coughlin~~ ~~Steven Pearl~~, 1000 East Main Street, Plainfield, Indiana 46168
 Part 70 Permit No.: T051-7175-00013
 Facility: Boilers No. 1, 2 and 3.
 Parameter: Sulfur Dioxide (SO₂) from coal combustion
 Limit: 3.19 pounds per million Btu heat input **(Conditions D.1.3(a), D.2.3(a), and D.3.3(a))**

FACILITY: _____ YEAR: _____

This form consists of 2 pages

Page 1 of 2

| Day | Daily Average Coal Sulfur Content (%) | Daily Average Coal Heat Content (MMBtu/lb) | Coal Consumption (Tons) | Equivalent Sulfur Dioxide Emissions (lbs/MMBtu) | | |
|-----|---------------------------------------|--|-------------------------|---|------------------|--------------|
| | | | | This day | Previous 29 days | 30 Day Total |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
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| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |

| Day | Daily Average Coal Sulfur Content (%) | Daily Average Coal Heat Content (MMBtu/lb) | Coal Consumption (Tons) | Equivalent Sulfur Dioxide Emissions (lbs/MMBtu) | | |
|-----|---------------------------------------|--|-------------------------|---|------------------|--------------|
| | | | | This day | Previous 29 days | 30 Day Total |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251

PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: ~~PSI~~ **Duke Energy Indiana, Inc. - Gibson Generating Station**
 Source Address: **1097 N 950 W, S.R. 64 W & C.R. 975, Owensville, Indiana 4766570**
 Mailing Address: c/o ~~Patrick Coughlin - Steven Pearl~~, 1000 East Main Street, Plainfield, Indiana 46168
 Part 70 Permit No.: T051-7175-00013

Months: _____ to _____ Year: _____

| | |
|---|------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are A deviation required to be reported by pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p> | |
| <input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD. | |
| <input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD | |
| Permit Requirement (specify permit condition #) | |
| Date of Deviation: | Duration of Deviation: |
| Number of Deviations: | |
| Probable Cause of Deviation: | |
| Response Steps Taken: | |
| Permit Requirement (specify permit condition #) | |
| Date of Deviation: | Duration of Deviation: |
| Number of Deviations: | |
| Probable Cause of Deviation: | |
| Response Steps Taken: | |

Page 2 of 2 of Quarterly Deviation And Compliance Monitoring Report

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

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

| |
|--------------------------------------|
| Conclusion and Recommendation |
|--------------------------------------|

- (a) Based on the facts, conditions, and evaluations made, the OAQ staff recommends to the IDEM's Commissioner that this Part 70 Significant Permit Modification No. 051-23526-00013 be approved.
- (b) Unless otherwise stated, information used in this review was derived from the letter received by the Office of Air Quality (OAQ) on July 21, 2006, and additional information provided on August 16, 2006, October 25, 2006, November 17, 2006, and January 12, 2007.
- (c) Copies of the preliminary findings have been provided to the Owensville Carnegie Public Library.

| |
|---------------------|
| IDEM Contact |
|---------------------|

Questions regarding this proposed permit can be directed to Mr. Nathan Bell at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-3350 or toll free at 1-800-451-6027 extension 4-3350.