INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a Significant Modification to a
Part 70 Operating Permit

for Duke Energy Indiana, Inc - Gibson Generating Station in Gibson County

Significant Source and Permit Modification No. 051-30403-00013 and 051-30405-00013

The Indiana Department of Environmental Management (IDEM), has received an application from Duke Energy Indiana, Inc - Gibson Generating Station located at 1097 North 950 West, Owensville, Indiana for a significant modification of their Part 70 Operating Permit issued on June 8, 2009. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Duke Energy Indiana, Inc - Gibson Generating Station to make certain changes at their existing source. Duke Energy Indiana, Inc - Gibson Generating Station has applied to construct a Dry Fly Ash Conversion Project that will install pneumatic conveying systems to pull fly ash from the precipitator hoppers conveying it to new storage silos as an alternative to wet ash handling (sluicing) for Units 1-3. Two means of ash removal from the silos will be included in this Project.

The applicant intends to construct and operate new equipment that will emit air pollutants. Some conditions from previously issued permits/approvals have been corrected or changed. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Owensville Carnegie Public Library
110 S. Main Street
Owensville, IN 47665

and

IDEM Southeast Regional Office
820 West Sweet Street
Brownstown, Indiana 47220-9557

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

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of,

or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number No. 051-30403-00013 and 051-30405-00013 in all correspondence.

Comments should be sent to:

Josiah Balogun
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension (4-5257)
Or dial directly: (317) 234-5257
E-mail: jbalogun@idem.in.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials.

For additional information about air permits and how you can participate, please see IDEM's **Guide for Citizen Participation** and **Permit Guide** on the Internet at: www.idem.in.gov.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251 and IDEM Southeast Regional Office, 820 West Sweet Street, Brownstown, Indiana 47220-9557.

If you have any questions please contact Josiah Balogun of my staff at the above address.

Tripurari Sinha

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

JB

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DRAFT

Mr. Mack Sims
Duke Energy Indiana, Inc - Gibson Gen. ST.
1000 East Main Street
Plainfield, IN 46168

Re: 051-30403-00013
Significant Source Modification to
Part 70 Renewal No.: T 051-27086-00013

Dear Mr. Sims:

Duke Energy Indiana, Inc - Gibson Generating Station was issued a Part 70 Operating Permit Renewal on June for an electric utility generating station. A letter requesting changes to this permit was received on April 4, 2011. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

Dry fly ash handling system, including the following:

(1) one (1) pneumatic fly ash transfer system from existing precipitator hoppers for Units 1, 2, and 3 equipped with separators/exhausters designated as A1, A2, A3 (spare) A4, A5, A6 (spare), A7 & A8 to two (2) new transfer stations designated as B1 & B2 each with a maximum capacity of 200 tons per hour. The particulate emissions from each transfer station silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(2) one (1) pneumatic fly ash transfer system conveying ash from the two (2) transfer station silos to two (2) new fixation silos designated as B3 & B4 each with a maximum capacity of 200 tons per hour. The particulate emissions from each fixation silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(3) one (1) pneumatic fly ash transfer system equipped enclosed screw conveyers from the two (2) fixation silos to a new Fixation Building with particulate emissions controlled by a dust collector C1 (with a spare dust collector C2).

(4) Loading of fly ash into trucks for transport to the landfill from fixation silos B3 & B4 using wet unloaders.

(5) Truck loading of two (2) new lime silos designated B5 & B6 for use in the Fixation Building, each with bin-vent filters controlling particulate matter emissions to 0.01 gr/dscf.

(6) One (1) fly ash day bin designated B7 with a maximum capacity of 200 tons per hour with particulate matter emissions controlled by a bin-vent filter to 0.01 gr/dscf.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13 17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

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

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Josiah Balogun, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Josiah Balogun or extension (4-5257), or dial (317) 234-5257.

Sincerely,

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

Attachments:
Updated Permit
Technical Support Document
PTE Calculations

JB

cc: File – Gibson County
Gibson County Health Department
U.S. EPA, Region V
SWRO and SERO
Compliance Data Section

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Draft
Significant Source Modification to 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 construct subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Significant Source Modification No.: 051-30403-00013	
Issued by: Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date:

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H.4.1 Nitrogen Oxides Emission Requirements [326 IAC 24-1-4(c)] [40 CFR 97.106(c)]
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H.4.3 Nitrogen Oxides Ozone Season Emission Requirements [326 IAC 24-3-4(c)] [40 CFR 97.306(c)]
H.5 Excess Emissions Requirements [326 IAC 24-1-4(d)] [326 IAC 24-2-4(d)] [326 IAC 24-3-4(d)] [40 CFR 97.106(d)] [40 CFR 97.206(d)] [40 CFR 97.306(d)]
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Certification
Emergency Occurrence Report
Part 70 Quarterly Report
Quarterly Deviation and Compliance Monitoring Report

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
General Source Phone Number:	(317) 838-2108
SIC Code:	4911
County Location:	Gibson
Source Location Status:	Nonattainment for $PM_{2.5}$ standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Major Source, under Nonattainment NSR Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

(a) One (1) 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 NOx during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO_2) emissions, and exhausting to a new stack, identified as Stack 1-2.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_X) and sulfur dioxide (SO_2) 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 NOx during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO_2) emissions, and exhausting to a new stack, identified as Stack 1-2.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_X) and sulfur dioxide (SO_2) 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 NOx during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO_2) emissions, and exhausting to

a new stack, identified as Stack 3.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_X) and sulfur dioxide (SO_2) 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 NOx during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack D.

Stack D has continuous emissions monitors (CEMs) for nitrogen oxides (NO_X) and sulfur dioxide (SO_2) 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 NOx during the ozone season, with a flue gas desulfurization (FGD) system for control of sulfur dioxide, and exhausting to stack C.

Stack C has continuous emissions monitors (CEMs) for nitrogen oxides (NO_X) and sulfur dioxide (SO_2) and a Boiler 5 has 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.

(j) Dry fly ash handling system, including the following:

(1) one (1) pneumatic fly ash transfer system from existing precipitator hoppers for Units 1, 2, and 3 equipped with separators/exhausters designated as A1, A2, A3 (spare) A4, A5, A6 (spare), A7 & A8 to two (2) new transfer stations designated as B1 & B2 each with a maximum capacity of 200 tons per hour. The particulate emissions from each transfer station silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(2) one (1) pneumatic fly ash transfer system conveying ash from the two (2) transfer station silos to two (2) new fixation silos designated as B3 & B4 each with a maximum capacity of 200 tons per hour. The particulate emissions from each fixation silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(3) one (1) pneumatic fly ash transfer system equipped enclosed screw conveyers from the two (2) fixation silos to a new Fixation Building with particulate emissions controlled by a dust collector C1 (with a spare dust collector C2).

(4) Loading of fly ash into trucks for transport to the landfill from fixation silos B3 & B4 using wet unloaders.

(5) Truck loading of two (2) new lime silos designated B5 & B6 for use in the Fixation Building, each with bin-vent filters controlling particulate matter emissions to 0.01 gr/dscf.

(6) One (1) fly ash day bin designated B7 with a maximum capacity of 200 tons per hour with particulate matter emissions controlled by a bin-vent filter to 0.01 gr/dscf.

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).

(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, T 051-27086-00013, 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 Term of Conditions [326 IAC 2-1.1-9.5]

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

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

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

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

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

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

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(i) it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1 (34), and

(ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

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

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

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

and

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

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

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

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require 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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.-The PMPs do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, no later than four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

no later than two (2) working days of the time when emission limitations were exceeded due to the emergency.

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(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.

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 T 051-27086-00013 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 Part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

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

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

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

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

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12] [40 CFR 72]

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

(b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]

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

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

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

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

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]

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

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

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

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

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

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

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Staff, 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 accessible 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

(f) This condition does not apply to emission trades of SO_2 or NO_X under 326 IAC 21 or 326 IAC 10-4.

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

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

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

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

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

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

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 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 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

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

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

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.8 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment required by this permit. For a boiler, the COMS shall be in operation at all times that the forced 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 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 five (5) consecutive six (6) minute averaging periods) at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.

(3) Method 9 readings may be discontinued once a COMS is online.

(4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.

(e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5 and 40 CFR 60 and/or 40 CFR 63.

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

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.

(b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or is down for maintenance or repairs, the following shall be used as an alternative to continuous data collection:

(1) If the CEM is required for monitoring NOX emissions pursuant to 40 CFR 75 (Title IV Acid Rain program) or 326 IAC 10-4 (NOX Budget Trading Program), the Permittee shall comply with the relevant requirements of 40 CFR 75 Subpart D - Missing Data Substitution Procedures.

(2) If the CEM is not used to monitor NOX emissions from a unit subject to requirements of the Title IV Acid Rain program or the NOX Budget Trading Program, and is down for a period of four (4) hours or more, then supplemental or intermittent monitoring of the parameter shall be implemented as specified in Section D of this permit until such time as the emission monitor system is back in operation.

(d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 26 IAC 3-5, 40 CFR 60 and Construction Permit PSD (26) 1215.

C.13 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.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

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

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not necessarily limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred-eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit no later than July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

(b) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

(c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr)), the Permittee shall comply with the following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, document and maintain the following records:

(A) A description of the project.

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

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

(i) Baseline actual emissions;

(ii) Projected actual emissions;

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

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

(d) If there is a reasonable possibility (as defined in 40 CFR 51.165 (a)(6)(vi)(A) and/or 40 CFR 51.166 (r)(6)(vi)(a)) that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

(1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

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

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(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 except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

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

(d) 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.

(e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, and the project meets the following criteria:

(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 reports 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
Compliance and Enforcement Branch, 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 (d) in Section C – General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll) at an existing emissions unit other than an Electric Utility Steam Generating Unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

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

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C – General Record Keeping Requirements (c)(1)(C)(ii).

(g) The report for a project at an existing emissions unit other than Electric Utility Steam Generating Unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C – General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3.

(4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction project.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

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

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

Ambient Monitoring Requirements [326 IAC 7-3]

C.22 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [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 NOx during the ozone season, with a flue gas desulfurization (FGD) system to control sulfur dioxide (SO_2) emissions, and exhausting to a new stack, identified as Stack 1-2.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_X) and sulfur dioxide (SO_2) and a continuous opacity monitor (COM).

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

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

D.1.1 PSD BACT Requirements [326 IAC 2-2-3]

Pursuant to PSD Permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions (PM) 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 (SO_2) [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 SO_2 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 (SO_2) 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 (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 1, by October 2010 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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 SO_2 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 (SO_2) 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]

(a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide (SO_2) 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)]

(d) Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using SO_2 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 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, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

(a) Appropriate response steps shall be taken 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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 SO_2 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 SO_2 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 the compliance status with Section C - Opacity and Conditions D.1.1 - PSD BACT Requirements, D.1.2 - Temporary Alternative Opacity Limitations, D.1.7 - Continuous Emissions Monitoring, D.1.9 - Transformer-Rectifier (T-R) Sets, and D.1.10 - 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 - PSD BACT Requirements 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) To document the compliance status with Conditions D.1.3 - Sulfur Dioxide (SO_2) and Pollution Control Project, D.1.8 - Sulfur Dioxide Emissions, and D.1.6(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO_2 continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

(c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.1.14 Reporting Requirements

(a) A quarterly report of opacity exceedances shall be submitted not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(b) A quarterly report of the SO_2 emissions exceedances in pounds per million Btus shall be submitted not later than thirty (30) days following the end of each calendar quarter.. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

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

(1) Date of downtime.

(2) Time of commencement.

(3) Duration of each downtime.

(4) Reasons for each downtime.

(5) Nature of system repairs and adjustments.

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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 (SO_2) emissions, and exhausting to a new stack, identified as Stack 1-2.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO_2) 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.)

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

D.2.1 PSD BACT Requirements [326 IAC 2-2-3]

Pursuant to PSD Permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions (PM) 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 (SO_2) [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 SO_2 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 (SO_2) 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 (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 2, by October 2010 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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 SO_2 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 (SO_2) 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]

(a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide (SO_2) 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)]

(d) Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using SO_2 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 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

(a) Appropriate response steps shall be taken 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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 SO_2 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 SO_2 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 the compliance status with Section C - Opacity and Conditions D.2.1 - PSD BACT Requirements D.2.2 -Temporary Alternative Opacity Limitations, D.2.7 - Continuous Emissions Monitoring, D.2.9 - Transformer-Rectifier (T-R) Sets, and D.2.10 - 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) To document the compliance status with Conditions D.2.3 - Sulfur Dioxide (SO_2) and Pollution Control Project, D.2.8 - Sulfur Dioxide Emissions, and D.2.6(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO_2 continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

(c) Section C - General Record Keeping Requirementscontains the Permittee's obligations with regard to the record keeping required by this condition.

D.2.14 Reporting Requirements

(a) A quarterly report of opacity exceedances shall be submitted not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(b) A quarterly report of the SO_2 emissions exceedances in pounds per million Btus shall be submitted not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(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.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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 (SO_2) emissions and exhausting to a new stack, identified as Stack 3.
Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO_2) 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.)

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

D.3.1 PSD BACT Requirements [326 IAC 2-2-3]

Pursuant to PSD Permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions (PM) 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 (SO_2) [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 SO_2 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 (SO_2) 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 (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 3, by October 2009 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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 SO_2 emission limits.

D.3.8 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 (SO_2) 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]

(a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide (SO_2) 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)]

(d) Pursuant to 326 IAC 3-5-1(c)(2)(B), compliance shall be demonstrated using SO_2 continuous 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 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

(a) Appropriate response steps shall be taken 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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 SO_2 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 SO_2 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 the compliance status with Section C - Opacity and Conditions D.3.1 - PSD BACT Requirements, D.3.2 - Temporary Alternative Opacity Limitations, D.3.7 - Continuous Emissions Monitoring, D.3.9 - Transformer-Rectifier (T-R) Sets, and D.3.10 - 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) To document the compliance status with Conditions D.3.3 - Sulfur Dioxide (SO_2) and Pollution Control Project, D.3.8 - Sulfur Dioxide Emissions, and D.3.6(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO_2 continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

(c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.3.14 Reporting Requirements

(a) A quarterly report of opacity exceedances shall be submitted not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(b) A quarterly report of the SO_2 emissions exceedances in pounds per million Btus shall be submitted not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(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.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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 (SO_2) 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.)

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

D.4.1 PSD BACT Requirements [326 IAC 2-2-3]

Pursuant to PSD Permit PSD (26) 1215, issued March 17, 1978, particulate matter emissions (PM) 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 (SO_2) [326 IAC 7-4-12.1]

Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO_2 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 (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 4, by October 2009 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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 SO_2 emission limits.

D.4.9 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 (SO_2) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

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 (SO_2), 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 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, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

(a) Appropriate response steps shall be taken 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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 SO_2 Monitor Downtime [326 IAC 2-7-6][326 IAC 2-7-5(1)]

Whenever the SO_2 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 the compliance status with Section C - Opacity and Conditions D.4.1 - PSD BACT Requirements, D.4.2 - Temporary Alternative Opacity Limitations, D.4.8 - Continuous Emissions Monitoring, D.4.10 - Transformer-Rectifier (T-R) Sets, and D.4.11 - 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.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 the compliance status with SO_2 Conditions D.4.3 - Sulfur Dioxide (SO_2), D.4.8 - Continuous Emissions Monitoring, D.4.9 - Sulfur Dioxide Emissions, D.4.7 - Flue Gas Desulfurization (FGD) System, and D.4.12 - SO_2 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 SO_2 limits as required in Conditions D.4.3 - Sulfur Dioxide (SO_2), and D.4.9 - Sulfur Dioxide Emissions. The Permittee shall maintain records in accordance with (2) and (3) below during SO_2 CEM system downtime if a backup CEM is not used.

(1) All SO_2 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.4.12- SO_2 Monitor Downtime.

(3) Actual fuel usage during each SO_2 CEM downtime.

(c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.4.15 Reporting Requirements

(a) A quarterly report of opacity exceedances and a quarterly summary of the information to document the compliance status with Condition D.4.2 - Temporary Alternative Opacity Limitations shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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 (SO_2) 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.)

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 SO_2 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 PSD BACT Requirements [326 IAC 2-2-3]

Pursuant to Construction Permit PSD (26) 1215 issued on March 17, 1978, 326 IAC 2-2 the and 40 CFR 52.21 (Prevention of Significant Deterioration), 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 (SO_2) [326 IAC 7-4-12.1]

Pursuant to 326 IAC 7-4-12.1 (Gibson County Sulfur Dioxide Emission Limitations), the SO_2 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 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.5.6 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.5.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

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

In order to determine compliance with the PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 5, by October 2009 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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 SO_2 emission limits.

D.5.11 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 (SO_2) emissions, which meets the performance specifications of 326 IAC 3-5-2, shall be installed, calibrated, operated, and maintained.

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.5.3 - Sulfur Dioxide (SO_2), 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 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 and Reports, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

(a) Appropriate response steps shall be taken 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. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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 SO_2 Monitor Downtime [326 IAC 2-7-6][326 IAC 2-7-5(1)]

Whenever the SO_2 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 the compliance status with Section C - Opacity and Conditions D.5.1- New Source Performance Standard (NSPS), D.5.2 - PSD BACT Requirements, D.5.3 - Temporary Alternative Opacity Limitations, D.5.10 - Continuous Emissions Monitoring, and D.5.12 - 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 the compliance status with Conditions D.5.1 - New Source Performance Standard (NSPS), D.5.4 - Sulfur Dioxide (SO_2), D.5.9 - Flue Gas Desulfurization (FGD) System, D.5.10 - Continuous Emissions Monitoring, D.5.11 - Sulfur Dioxide Emissions, and D.5.13 - 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 SO_2 limits as required in Conditions D.5.4 - Sulfur Dioxide (SO_2), and D.5.9 - Flue Gas Desulfurization (FGD) System. The Permittee shall maintain records in accordance with (2) and (3) below during SO_2 CEM system downtime if a backup CEM is not used.

(1) All SO_2 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.5.14 - SO_2 Monitor Downtime.

(3) Actual fuel usage during each SO_2 CEM downtime.

(c) Section C - General Record Keeping Requirementscontains the Permittee's obligations with regard to the record keeping required by this condition.

D.5.17 Reporting Requirements

(a) A quarterly report of opacity exceedances and a quarterly summary of the information to document the compliance status with Conditions D.5.1 - New Source Performance Standard (NSPS), and D.5.4 - Sulfur Dioxide (SO_2), shall be submitted not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

(b) To document the compliance status 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 sixmonth 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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-14 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.

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

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

D.6.1 Particulate Emission Limitations for Manufacturing Processes [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:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = 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 (PMP) is required for for the watering system and the telescopic. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

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-14 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. 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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. 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~~, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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

(a) To document the compliance status with Condition D.6.4 - Visible Emissions Notations, the Permittee shall maintain records of the weekly 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).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

SECTION D.7 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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 ambient air.

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

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

D.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 Emission Limitations for Manufacturing Processes [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:

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

Compliance Determination Requirement

D.7.4 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.7.5 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.7.6 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. 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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. 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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. Failure to take response steps, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(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.7.7 Record Keeping Requirements

(a) To document the compliance status with Section C - Opacity and Condition D.7.6 - Visible Emissions Notations, the Permittee shall maintain records of the weekly 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).

(b) Section C - General Record Keeping Requirementscontains the Permittee's obligations with regard to the record keeping required by this condition.

SECTION D.8 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]: 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.

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

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

D.8.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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.

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

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

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

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

Compliance Determination Requirement

D.9.4 Particulate Control [326 IAC 2-7-6(6)]

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

(a) The Permittee shall 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.9.5 NSPS Test Methods and Procedures [40 CFR Part 60, Subpart OOO]

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.9.6 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. Failure to take response steps, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(f) If abnormal emissions are observed from the limestone transfer points, the Permittee shall take reasonable response steps. 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 shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

D.9.7 Record Keeping Requirements

(a) To document the compliance status with Condition D.9.6, the Permittee shall maintain records of the weekly 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) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

SECTION D.10 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

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.

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

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

D.10.1 Particulate Emission Limitations for Manufacturing Processes [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:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = 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 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

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

Compliance Determination Requirement

D.10.3 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.10.4 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. Failure to take response steps, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(f) If abnormal emissions are observed from the gypsum transfer points, the Permittee shall take reasonable response steps. 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, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

D.10.5 Record Keeping Requirements

(a) To document the compliance status with Condition D.10.4, 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) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

SECTION D.11 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

(j) Dry fly ash handling system:

(1) one (1) pneumatic fly ash transfer system from existing precipitator hoppers for Units 1, 2, and 3 equipped with separators/exhausters designated as A1, A2, A3 (spare) A4, A5, A6 (spare), A7 & A8 to two (2) new transfer stations designated as B1 & B2 each with a maximum capacity of 200 tons per hour. The particulate emissions from each transfer station silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(2) one (1) pneumatic fly ash transfer system conveying ash from the two (2) transfer station silos to two (2) new fixation silos designated as B3 & B4 each with a maximum capacity of 200 tons per hour. The particulate emissions from each fixation silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(3) one (1) pneumatic fly ash transfer system equipped enclosed screw conveyers from the two (2) fixation silos to a new Fixation Building with particulate emissions controlled by a dust collector C1 (with a spare dust collector C2).

(4) Loading of fly ash into trucks for transport to the landfill from fixation silos B3 & B4 using wet unloaders.

(5) Truck loading of two (2) new lime silos designated B5 & B6 for use in the Fixation Building, each with bin-vent filters controlling particulate matter emissions to 0.01 gr/dscf.

(6) One (1) fly ash day bin designated B7 with a maximum capacity of 200 tons per hour with particulate matter emissions controlled by a bin-vent filter to 0.01 gr/dscf.

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

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

D.11.1 PSD Minor Limits and Particulate Emission Limitation for Manufacturing Processes [326 IAC 2-2] [326 IAC 6-3-2]

In order to make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable, the Permittee shall comply with the following for the Dry fly ash handling system:

(A) The total hours of operation for the Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter shall be less than 5840 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Exhauster 3A and Exhauster 3B shall not exceed 0.188 pounds per hour, each.

(b) PM and PM10 emissions from the Exhauster 1A, Exhauster 1B, Exhauster 2A, and Exhauster 2B shall not exceed 0.28 pounds per hour, each.

(c) PM and PM10 emissions from the U1 Bin Vent Filter and U2 Bin Vent Filter shall not exceed 0.13 pounds per hour, each.

(B) The total hours of operation for the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall be less than 2920 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall not exceed 0.65 pounds per hour, each.

(C) The total hours of operation for the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall be less than 8030 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall not exceed 0.085 pounds per hour, each.

(D) The total hours of operation for the Fly Ash Day Bin vent Filter shall be less than 8395 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Fly Ash Day Bin vent Filter shall not exceed 0.12 pounds per hour, each.

(E) PM and PM10 emissions from the Dust Collector A shall not exceed 0.386 pounds per hour, each.

Compliance with these limits will limit the potential to emit of PM and PM_{10} emissions from the dry fly ash handling system to less than 25 and15 per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2011 modification.

This condition will also satisfy for 326 IAC 6-3-2 for the emission units being constructed in 2011.

D.11.2 Nonattainment New Source Review [326 IAC 2-1.1-5]

In order to make the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable, the Permittee shall comply with the following for the Dry fly ash handling system:

(A) The total hours of operation for the Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter shall be less than 5840 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Exhauster 3A and Exhauster 3B shall not exceed 0.188 pounds per hour, each.

(b) PM2.5 emissions from the Exhauster 1A, Exhauster 1B, Exhauster 2A, and Exhauster 2B shall not exceed 0.28 pounds per hour, each.

(c) PM2.5 emissions from the U1 Bin Vent Filter and U2 Bin Vent Filter shall not exceed 0.13 pounds per hour, each.

(B) The total hours of operation for the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall be less than 2920 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall not exceed 0.65 pounds per hour, each.

(C) The total hours of operation for the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall be less than 8030 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall not exceed 0.085 pounds per hour, each.

(D) The total hours of operation for the Fly Ash Day Bin vent Filter shall be less than 8395 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Fly Ash Day Bin vent Filter shall not exceed 0.12 pounds per hour.

(E) PM2.5 emissions from the Dust Collector A shall not exceed 0.386 pounds per hour.

Compliance with these limits will limit the potential to emit of $PM_{2.5}$ emissions from the dry fly ash handling system to less than 10 tons per year and render the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable to the 2011 modification.

D.11.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.11.4 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with Conditions D.11.1 and D.11.2, the filters, bin vent filter and the dust collectors for particulate control shall be in operation and control emissions from these emission units at all times that these emission units are in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for 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.

D.11.5 Testing requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within 180 days after the initial startup of the pneumatic fly ash transfer system, compliance with the PM, PM10 and PM2.5 limitations in Conditions D.11.1(A)(a), (b) and D.11.2 A (a) and (b) shall be determined by a performance stack test on two (2) of the eight (8) separator/exhausters using methods as approved by the Commissioner. This testing shall be at least once every 5 years from the date of the last valid compliance demonstration. The separator/exhauster tested shall be the unit in which the longest amount of time has elapsed since its previous test. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

(b) Within 180 days after the initial startup of the pneumatic fly ash transfer system, compliance with the PM, PM10 and PM2.5 limitations in Conditions D.11.1A (c), B(a) (C) (a), D(a) and D.11.2 A (c), B(a, C(a) and D(a) shall be determined by a performance stack test on two (2) of the seven (7) silo bin vent filters using methods as approved by the Commissioner. This testing shall be at least once every 5 years from the date of the last valid compliance demonstration. The bin vent filters tested shall be the unit in which the longest amount of time has elapsed since its previous test. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

(c) Within 180 days after the initial startup of the pneumatic fly ash transfer system, compliance with the PM, PM10 and PM2.5 limitations in Conditions D.11.1(E) and D.11.2 (E) shall be determined by a performance stack test on one (1) of the two (2) fixation building dust collectors using methods as approved by the Commissioner. This testing shall be at least once every 5 years from the date of the last valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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

D.11.6 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of the truck loading and unloading stations shall be performed at least once per day during normal daylight operations when ash is being loaded and unloaded. A trained employee shall record whether any emissions are normal or abnormal.

(b) Visible emission notations of the separator/exhausters shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(c) Visible emission notations of the silo bin vent filters shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(d) Visible emission notations of the fixation building dust collector exhaust shall be performed at least once per day during normal daylight operations when the pin-paddle mixers are operating. A trained employee shall record whether emissions are normal or abnormal.

(e) Visible emissions of the landfill area shall be performed at least once per day during normal daylight hours. A trained employee shall record whether emissions are normal or abnormal.

(f) 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. Failure to take response steps, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(g) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(h) 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.

(i) 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.

(j) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

D.11.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

The Permittee shall record the pressure drop across the dust collector C1 used in conjunction with the Pneumatic fly ash transfer system at least once per day when this process is in operation and exhausting to the atmosphere.

When for any one reading, the pressure drop across the dust collector is outside the normal range of 2.0 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.11.8 Broken or Failed Bag Detection [40 CFR 64]

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

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

D.11.9 Record Keeping Requirements [40 CFR 64]

(a) To document the compliance status with Conditions D.11.1 (A), (B), (C), (D) and D.11.2 (A), (B), (C), and (D), the Permittee shall maintain monthly records of hours of operation of the Dry fly ash handling system.

(b) To document the compliance status with Condition D.11.6 - Visible Emission Notation, the Permittee shall maintain records of visible emission notations of truck loading and unloading stations, separator/exhausters, silo bin vent filters, fixation building dust collector exhaust and the landfill area once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(c) To document the compliance status with Condition D.11.7-Baghouse Parametric Monitoring, the Permittee shall maintain records once per day of the pressure drop for dust collector C1 during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

(d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.11.10 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.11.1 (A), (B), (C), (D) and D.11.2 (A), (B), (C) and (D) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

SECTION E **ACID RAIN PROGRAM CONDITIONS**

ORIS Code: 6113

Title IV Source Description:

(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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) and a continuous opacity monitor (COM).

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

E.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).

E.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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 5 in compliance with this permit.

E.3. Monitoring Requirements [326 IAC 21]

(a) The Permittee and, to the extent applicable, the designated representative of Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 5 under other applicable requirements of the Clean Air Act and other provisions of the operating permit for the source.

E.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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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) Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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)]

E.5. Nitrogen Oxides Requirements [326 IAC 21]

(a) The Permittee shall comply with the applicable acid rain emissions limitation for nitrogen oxides (NOx) for Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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 2007 through 2011. Under the plan the NOx emissions from Unit 1 shall not exceed the alternative contemporaneous annual emission limitation (ACEL) of 0.29 lb/MMBtu. In addition, Unit 1 shall not have an annual heat input less than 40,679,344 MMBtu.

(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.

(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 2007 through 2011. Under the plan the NOx emissions from Unit 2 shall not exceed the ACEL of 0.29 lb/MMBtu. In addition, Unit 2 shall not have an annual heat input less than 35,784,543 MMBtu.

(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.

(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 2007 through 2011. Under the plan the NOx emissions from Unit 3 shall not exceed the ACEL of 0.30 lb/MMBtu. In addition, Unit 3 shall not have an annual heat input less than 45,485,728 MMBtu.

(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.

(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 2007 through 2011. Under the plan the NOx emissions from Unit 4 shall not exceed the ACEL of 0.29 lb/MMBtu. In addition, Unit 4 shall not have an annual heat input less than 53,603,321 MMBtu.

(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

(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 2007 through 2011. Under the plan the NOx emissions from Unit 5 shall not exceed the ACEL of 0.30 lb/MMBtu. In addition, Unit 5 shall not have an annual heat input less than 47,798,920 MMBtu.

(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 Kentucky Department of Environmental Protection, Division of Air Quality; North Carolina Department of Environmental and Natural Resources, Division of Air Quality; and South Carolina Department of Health and Environmental Control, Bureau 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.

E.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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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) 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.

E.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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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.

E.8. Submissions [326 IAC 21]

(a) The designated representative of Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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 Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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.

E.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)]

E.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) Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 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.

E.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.

SECTION F **SO_3 MITIGATION PLAN**

Emissions Unit Description: [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 (SO_2) emissions, and exhausting to a new stack, identified as Stack 1-2.

Boiler No. 1 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO_2) 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 (SO_2) emissions, and exhausting to a new stack, identified as Stack 1-2.

Boiler No. 2 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO_2) 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 (SO_2) emissions, and exhausting to a new stack, identified as Stack 3.

Boiler No. 3 has its own continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO_2) 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 (SO_2) 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 (SO_2) 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.)

F.1 SO_3 Mitigation System [326 IAC 2-2.3]

(a) Pursuant to 326 IAC 2-2.3, the Permittee shall operate the SO_3 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 SO_3 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 SO_3 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 SO_3 Testing Requirement

(a) By July 1, 2005, the Permittee shall conduct a SO_3 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 SO_3 emissions test.

F.3 Minimum Injection Rate

(a) The Permittee shall operate the SO_3 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 SO_3 mitigation.

(c) Any change in the established minimum injection rate, the Permittee shall report such change with supporting information.

F.4 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.

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

ORIS Code: 6113

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

(a) One (1) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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.)

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

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

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

(a) The owners and operators of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit shall operate each source and unit in compliance with this CAIR permit.

(b) The CAIR NO_X unit(s), CAIR SO_2 unit(s), and CAIR NO_X ozone season unit(s) subject to this CAIR permit are Boiler 1, Boiler 2, Boiler 3, Boiler 4 and Boiler 5.

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

(a) The owners and operators, and the CAIR designated representative, of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit at the source shall comply with the applicable monitoring, reporting, and record keeping requirements of 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.

(b) The emissions measurements recorded and reported in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 shall be used to determine compliance by each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source with the CAIR NO_X emissions limitation under 326 IAC 24-1-4(c), CAIR SO_2 emissions limitation under 326 IAC 24-2-4(c), and CAIR NO_X ozone season emissions limitation under 326 IAC 24-3-4(c) and Condition I.4.1, Nitrogen Oxides Emission Requirements, Condition I.4.2, Sulfur Dioxide Emission Requirements, and Condition I.4.3, Nitrogen Oxides Ozone Season Emission Requirements.

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

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X source and each CAIR NO_X unit at the source shall hold, in the source's compliance account, CAIR NO_X allowances available for compliance deductions for the control period under 326 IAC 24-1-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_X units at the source, as determined in accordance with 326 IAC 24-1-11.

(b) A CAIR NO_X unit shall be subject to the requirements under 326 IAC 24-1-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-1-4(c)(2), and for each control period thereafter.

(c) A CAIR NO_X allowance shall not be deducted for compliance with the requirements under 326 IAC 24-1-4(c)(1), for a control period in a calendar year before the year for which the CAIR NO_X allowance was allocated.

(d) CAIR NO_X allowances shall be held in, deducted from, or transferred into or among CAIR NO_X allowance tracking system accounts in accordance with 326 IAC 24-1-9, 326 IAC 24-1-10, and 326 IAC 24-1-12.

(e) A CAIR NO_X allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO_X annual trading program. No provision of the CAIR NO_X annual trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-1-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.

(f) A CAIR NO_X allowance does not constitute a property right.

(g) Upon recordation by the U.S. EPA under 326 IAC 24-1-8, 326 IAC 24-1-9, 326 IAC 24-1-10, or 326 IAC 24-1-12, every allocation, transfer, or deduction of a CAIR NO_X allowance to or from a CAIR NO_X source's compliance account is incorporated automatically in this CAIR permit.

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

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO_2 allowances available for compliance deductions for the control period under 326 IAC 24-2-8(j) and 326 IAC 24-2-8(k) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with 326 IAC 24-2-10.

(b) A CAIR SO_2 unit shall be subject to the requirements under 326 IAC 24-2-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-2-4(c)(2), and for each control period thereafter.

(c) A CAIR SO_2 allowance shall not be deducted for compliance with the requirements under 326 IAC 24-2-4(c)(1), for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.

(d) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 allowance tracking system accounts in accordance with 326 IAC 24-2-8, 326 IAC 24-2-9, and 326 IAC 24-2-11.

(e) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 trading program. No provision of the CAIR SO_2 trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-2-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.

(f) A CAIR SO_2 allowance does not constitute a property right.

(g) Upon recordation by the U.S. EPA under 326 IAC 24-2-8, 326 IAC 24-2-9, or 326 IAC 24-2-11, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 source's compliance account is incorporated automatically in this CAIR permit.

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

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X ozone season source and each CAIR NO_X ozone season unit at the source shall hold, in the source's compliance account, CAIR NO_X ozone season allowances available for compliance deductions for the control period under 326 IAC 24-3-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_X ozone season units at the source, as determined in accordance with 326 IAC 24-3-11.

(b) A CAIR NO_X ozone season unit shall be subject to the requirements under 326 IAC 24-3-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-3-4(c)(2), and for each control period thereafter.

(c) A CAIR NO_X ozone season allowance shall not be deducted for compliance with the requirements under 326 IAC 24-3-4(c)(1), for a control period in a calendar year before the year for which the CAIR NO_X ozone season allowance was allocated.

(d) CAIR NO_X ozone season allowances shall be held in, deducted from, or transferred into or among CAIR NO_X ozone season allowance tracking system accounts in accordance with 326 IAC 24-3-9, 326 IAC 24-3-10, and 326 IAC 24-3-12.

(e) A CAIR NO_X ozone season allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO_X ozone season trading program. No provision of the CAIR NO_X ozone season trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-3-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.

(f) A CAIR NO_X ozone season allowance does not constitute a property right.

(g) Upon recordation by the U.S. EPA under 326 IAC 24-3-8, 326 IAC 24-3-9, 326 IAC 24-3-10, or 326 IAC 24-3-12, every allocation, transfer, or deduction of a CAIR NO_X ozone season allowance to or from a CAIR NO_X ozone season source's compliance account is incorporated automatically in this CAIR permit.

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

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

(1) Surrender the CAIR NO_X allowances required for deduction under 326 IAC 24-1-9(j)(4).

(2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

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

(b) The owners and operators of a CAIR SO_2 source and each CAIR SO_2 unit that emits sulfur dioxide during any control period in excess of the CAIR SO_2 emissions limitation shall do the following:

(1) Surrender the CAIR SO_2 allowances required for deduction under 326 IAC 24-2-8(k)(4).

(2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

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

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

(1) Surrender the CAIR NO_X ozone season allowances required for deduction under 326 IAC 24-3-9(j)(4).

(2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

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

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

Unless otherwise provided, the owners and operators of the CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit at the source shall keep on site at the source or at a central location within Indiana for those owners or operators with unattended sources, each of the following documents for a period of five (5) years from the date the document was created:

(a) The certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), and 326 IAC 24-3-6(h) for the CAIR designated representative for the source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation. The certificate and documents shall be retained on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond such five (5) year period until such documents are superseded because of the submission of a new account certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), and 326 IAC 24-3-6(h) changing the CAIR designated representative.

(b) All emissions monitoring information, in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11, provided that to the extent that 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 provides for a three (3) year period for record keeping, the three (3) year period shall apply.

(c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program.

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

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

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

(a) The CAIR designated representative of the CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit at the source shall submit the reports required under the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program, including those under 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.

(b) Pursuant to 326 IAC 24-1-4(e), 326 IAC 24-2-4(e), and 326 IAC 24-3-4(e) and 326 IAC 24-1-6(e)(1), 326 IAC 24-2-6(e)(1), and 326 IAC 24-3-6(e)(1), each submission under the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program shall include the following certification statement by the CAIR designated representative: “I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

(c) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to IDEM, OAQ, the information shall be submitted to:

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

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

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

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

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

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

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

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

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

No provision of the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program, a CAIR permit application, a CAIR permit, or an exemption under 326 IAC 24-1-3, 326 IAC 24-2-3, and 326 IAC 24-3-3 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source or CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act (CAA).

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

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

(a) Except as specified in 326 IAC 24-1-6(f)(3), 326 IAC 24-2-6(f)(3), and 326 IAC 24-3-6(f)(3), each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source, including all CAIR NO_X units, CAIR SO_2 units, and CAIR NO_X ozone season units at the source, shall have one (1) and only one (1) CAIR designated representative, with regard to all matters under the CAIR NO_X annual trading program, CAIR SO_2 trading program, and CAIR NO_X ozone season trading program concerning the source or any CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X ozone season unit at the source.

(b) The provisions of 326 IAC 24-1-6(f), 326 IAC 24-2-6(f), and 326 IAC 24-3-6(f) shall apply where the owners or operators of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X ozone season source choose to designate an alternate CAIR designated representative.

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

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

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.: T 051-27086-00013

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:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.: T 051-27086-00013

This form consists of 2 pages **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), no later than four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile no later than two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name:	Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address:	1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.:	T 051-27086-00013
Facility:	Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter
Pollutants:	PM PM_{10} and $PM_{2.5}$
Parameter:	Number of hours of operation
Limit:	Less than 5840 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name:	Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address:	1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.:	T 051-27086-00013
Facility:	Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter
Pollutants:	PM PM_{10} and $PM_{2.5}$
Parameter:	Number of hours of operation
Limit:	Less than 2920 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name:	Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address:	1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.:	T 051-27086-00013
Facility:	Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter
Pollutants:	PM PM_{10} and $PM_{2.5}$
Parameter:	Number of hours of operation
Limit:	Less than 8030 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.: T 051-27086-00013
Facility: Fly Ash Day Bin vent Filter
Pollutants: PM PM_{10} and $PM_{2.5}$
Parameter: Number of hours of operation
Limit: Less than 8395 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH,
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.: T 051-27086-00013

Months: _____ to _____ Year: _____

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name:	Duke Energy Indiana, Inc. - Gibson Generating Station
Source Location:	1097 North 950 West, Owensville, IN 47665
County:	Gibson
SIC Code:	4911
Operation Permit No.:	T 051-27086-00013
Operation Permit Issuance Date:	June 8, 2009
Significant Source Modification No.:	051-30403-00013
Significant Permit Modification No.:	051-30405-00013
Permit Reviewer:	Josiah Balogun

Existing Approvals

The source was issued Part 70 Operating Permit No. 051-27086-00013 on June 8, 2009. The source has since received the following approvals:

(a) Temporary Operation 051-29664-00013, issued on September 28, 2010; and

(b) Significant Permit Modification No. AR 051-29752-00013, issued on January 4, 2011.

County Attainment Status

The source is located in Gibson County.

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

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for the Montgomery Twp for PM2.5. The remainder of Gibson County is unclassifiable or attainment effective April 5, 2005, for PM2.5.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Gibson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$
U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Gibson County Montgomery Township only as nonattainment for $PM_{2.5}$. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for $PM_{2.5}$ promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants
Gibson County has been classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

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

Source Status

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

Pollutant	**Emissions** (ton/yr)
PM	Greater than 100
PM_{10}	Greater than 100
$PM_{2.5}$	Greater than 100
SO_2	Greater than 100
VOC	Greater than 100
CO	Greater than 100
NO_X	Greater than 100
Cyanide	Greater than 10
Lead	Greater than 10
Total HAPs	Greater than 25

(a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is a major stationary source, under nonattainment new source review rules (326 IAC 2-1.1-5) since direct $PM_{2.5}$ and SO_2 are emitted at a rate of 100 tons per year or more.

(c) These emissions are based upon Part 70 Operating Permit No. T051-27086-00013, issued on June 8, 2009.

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

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Duke Energy Indiana, Inc. - Gibson Generating Station on April 4 2011, relating to the Dry Fly Ash Conversion Project that will install pneumatic conveying systems to pull fly ash from the precipitators hoppers conveying it to new storage silos as an alternative to wet ash handling (sluicing) for Units 1-3. Two means of ash removal from the silos will be included in the Project. The following is a list of the proposed emission unit(s) and pollution control device(s):

Dry fly ash handling system, including the following:

(1) one (1) pneumatic fly ash transfer system from existing precipitator hoppers for Units 1, 2, and 3 equipped with separators/exhausters designated as A1, A2, A3 (spare) A4, A5, A6 (spare), A7 & A8 to two (2) new transfer stations designated as B1 & B2 each with a maximum capacity of 200 tons per hour. The particulate emissions from each transfer station silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(2) one (1) pneumatic fly ash transfer system conveying ash from the two (2) transfer station silos to two (2) new fixation silos designated as B3 & B4 each with a maximum capacity of 200 tons per hour. The particulate emissions from each fixation silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(3) one (1) pneumatic fly ash transfer system equipped enclosed screw conveyers from the two (2) fixation silos to a new Fixation Building with particulate emissions controlled by a dust collector C1 (with a spare dust collector C2).

(4) Loading of fly ash into trucks for transport to the landfill from fixation silos B3 & B4 using wet unloaders.

(5) Truck loading of two (2) new lime silos designated B5 & B6 for use in the Fixation Building, each with bin-vent filters controlling particulate matter emissions to 0.01 gr/dscf.

(6) One (1) fly ash day bin designated B7 with a maximum capacity of 200 tons per hour with particulate matter emissions controlled by a bin-vent filter to 0.01 gr/dscf.

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

PTE Before Controls of the Modification	
Pollutant	**Potential To Emit** (ton/yr)
PM	6030
PM_{10}	6030
$PM_{2.5}$	6030
SO_2	0
VOC	0
CO	0
NO_X	0

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

Permit Level Determination – PSD

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

	Potential to Emit (ton/yr)						
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**VOC**	**CO**	**NO_X**
Exhauster 3A	0.55	0.55	0.55	0	0	0	0
Exhauster 3B	0.55	0.55	0.55	0	0	0	0
Exhauster 3C (Spare)	0	0	0	0	0	0	0
Exhauster 1A	0.83	0.83	0.83	0	0	0	0
Exhauster 1B	0.83	0.83	0.83	0	0	0	0
Spare Exhauster	0	0	0	0	0	0	0
Exhauster 2A	0.83	0.83	0.83	0	0	0	0
Exhauster 2B	0.83	0.83	0.83	0	0	0	0
U1 Bin Vent Filter	0.38	0.38	0.38	0	0	0	0
U2 Bin Vent Filter	0.38	0.38	0.38	0	0	0	0
Remotely Fly Ash Silo A Bin Vent Filter	0.95	0.95	0.95	0	0	0	0

	Potential to Emit (ton/yr)						
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**VOC**	**CO**	**NO_X**
Remotely Fly Ash Silo B Bin Vent Filter	0.95	0.95	0.95	0	0	0	0
Lime Silo A Bin Vent Filter	0.34	0.34	0.34	0	0	0	0
Lime Silo B Bin Vent Filter	0.34	0.34	0.34	0	0	0	0
Fly Ash Day Bin vent Filter	0.50	0.50	0.50	0	0	0	0
Dust Colector A	1.69	1.69	1.69	0	0	0	0
Dust Colector B (Spare)	0	0	0	0	0	0	0
Total for Modification	9.95	9.95	9.95	--	--	--	--
Significant Level	**25**	**15**	**10**	**40**	**40**	**100**	**40**

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

Federal Rule Applicability Determination

(a) The proposed project involves the use of lime. Unlike limestone, lime is not a nonmetallic mineral. Lime is made by the thermal decomposition of limestone in a lime kiln. The only processing of lime done at this source is pneumatically conveying the lime to silos. Other than being conveyed the lime is not crushed, grinded or screened. Therefore, the NSPS for Nonmetallic Mineral Processing Plants under 40 CFR Part 60 Subpart OOO is not applicable to the proposed project.

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

(c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

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

CAM Applicability Analysis							
Emission Unit	**Control Device Used**	**Emission Limitation** (Y/N)	**Uncontrolled PTE** (ton/yr)	**Controlled PTE** (ton/yr)	**Part 70 Major Source Threshold** (ton/yr)	**CAM Applicable** (Y/N)	**Large Unit** (Y/N)
Exhauster 3A (PM10)	Filter	Y	270	0.27	100	Y	N
Exhauster 3A (PM)	Filter	Y	270	0.27	100	Y	N
Exhauster 3A (PM2.5)	Filter	Y	270	0.27	100	Y	N
Exhauster 3B (PM10)	Filter	Y	270	0.27	100	Y	N
Exhauster 3B (PM)	Filter	Y	270	0.27	100	Y	N
Exhauster 3B (PM2.5)	Filter	Y	270	0.27	100	Y	N
Exhauster 1A(PM10)	Filter	Y	410	0.41	100	Y	N
Exhauster 1A(PM)	Filter	Y	410	0.41	100	Y	N
Exhauster 1A(PM2.5)	Filter	Y	410	0.41	100	Y	N
Exhauster 1B(PM10)	Filter	Y	410	0.41	100	Y	N
Exhauster 1B(PM)	Filter	Y	410	0.41	100	Y	N
Exhauster 1B (PM2.5)	Filter	Y	410	0.41	100	Y	N
Exhauster 2A (PM10)	Filter	Y	410	0.41	100	Y	N
Exhauster 2A (PM)	Filter	Y	410	0.41	100	Y	N
Exhauster 2A (PM2.5)	Filter	Y	410	0.41	100	Y	N
Exhauster 2B (PM10)	Filter	Y	410	0.41	100	Y	N
Exhauster 2B (PM)	Filter	Y	410	0.41	100	Y	N
Exhauster 2B (PM2.5)	Filter	Y	410	0.41	100	Y	N
U1Bin Vent(PM10)	Bin Vent	Y	190	0.19	100	Y	N
U1Bin Vent(PM)	Bin Vent	Y	190	0.19	100	Y	N
U1Bin Vent (PM2.5)	Bin Vent	Y	190	0.19	100	Y	N
U2 Bin Vent(PM10)	Bin Vent	Y	190	0.19	100	Y	N
U2 Bin Vent(PM)	Bin Vent	Y	190	0.19	100	Y	N
U2 Bin Vent (PM2.5)	Bin Vent	Y	190	0.19	100	Y	N
Silo A (PM10)	Bin Vent	Y	720	0.72	100	Y	N
Silo A (PM)	Bin Vent	Y	720	0.72	100	Y	N

CAM Applicability Analysis							
Emission Unit	**Control Device Used**	**Emission Limitation** (Y/N)	**Uncontrolled PTE** (ton/yr)	**Controlled PTE** (ton/yr)	**Part 70 Major Source Threshold** (ton/yr)	**CAM Applicable** (Y/N)	**Large Unit** (Y/N)
Silo A (PM2.5)	Bin Vent	Y	720	0.72	100	Y	N
Silo B (PM10)	Bin Vent	Y	720	0.72	100	Y	N
Silo B (PM)	Bin Vent	Y	720	0.72	100	Y	N
Silo B (PM2.5)	Bin Vent	Y	720	0.72	100	Y	N
Lime Silo A (PM10)	Bin Vent	Y	60	0.06	100	N	N
Lime Silo A (PM2.5)	Bin Vent	Y	60	0.06	100	N	N
Lime Silo B (PM10)	Bin Vent	Y	60	0.06	100	N	N
Lime Silo B (PM2.5)	Bin Vent	Y	60	0.06	100	N	N
Day Bin(PM10)	Bin Vent	Y	220	0.22	100	Y	N
Day Bin(PM)	Bin Vent	Y	220	0.22	100	Y	N
Day Bin(PM2.5)	Bin Vent	Y	220	0.22	100	Y	N
Dust A (PM10)	Baghouse	Y	1690	1.69	100	Y	N
Dust A (PM)	Baghouse	Y	1690	1.69	100	Y	N
Dust A (PM2.5)	Baghouse	Y	1690	1.69	100	Y	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to Exhauster 3A, Exhauster 3B, Exhauster 1A Exhauster 1B Exhauster 2A Exhauster 2B U1Bin Vent U2Bin Vent Silo A Silo B, Day Bin, Dust A, Dust B for PM, PM10 and PM2.5 upon issuance of the Title V Renewal. A CAM plan has been included in ther permit.

State Rule Applicability Determination

326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR)
The uncontrolled potential to emit of this modification is greater than 25 tons per year for PM, greater than 15 tons per year for PM10 and greater than 10 tons per year for PM2.5. In order to make the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable, the Permittee shall comply with the following emission limits for the dry fly ash handling system:

(A) The total hours of operation for the Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter shall be less than 5840 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM/PM-10/PM2.5 emissions from the Exhauster 3A and Exhauster 3B shall not exceed 0.188 pounds per hour, each.

(b) PM/PM-10/PM2.5 emissions from the Exhauster 1A, Exhauster 1B, Exhauster 2A, and Exhauster 2B shall not exceed 0.28 pounds per hour, each.

(c) PM/PM-10/PM2.5 emissions from the U1 Bin Vent Filter and U2 Bin Vent Filter shall not exceed 0.13 pounds per hour, each.

(B) The total hours of operation for the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall be less than 2920 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM/PM-10/PM2.5 emissions from the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall not exceed 0.65 pounds per hour, each.

(C) The total hours of operation for the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall be less than 8030 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM/PM-10/PM2.5 emissions from the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall not exceed 0.085 pounds per hour, each.

(D) The total hours of operation for the Fly Ash Day Bin vent Filter shall be less than 8395 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM/PM-10/PM2.5 emissions from the Fly Ash Day Bin vent Filter shall not exceed 0.12 pounds per hour, each.

(E) PM/PM-10/PM2.5 emissions from the Dust Collector A shall not exceed 0.386 pounds per hour, each.

Compliance with these limits will limit the potential to emit of PM, PM_{10} and $PM_{2.5}$ emissions from the dry fly ash handling system to less than 25, 15 and 10 tons per year, respectively and render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable to the 2011 modification.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of these emission units will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
(a) The potential PM emissions from remote silo operations B3-Remote Fly Ash Silo A and B4-Remote Fly Ash Silo B are less than 0.551 pounds per hour. Therefore, these processes are not subject to 326 IAC 6-3.

(b) Pursuant to 326 IAC 6-3-2, the allowable particulate matter (PM) from A1-Exhauster 3A, A2-Exhauster 3B, A4-Exhauster 1A, A5-Exhauster 1B, A7-Exhauster 2A, A8-Exhauster 2B, B1-U1 Bin Vent Filter, B2-U2 Bin Vent Filter and C1-Dust Collector A shall not exceed 58.51 pounds per hour when operating at a process weight rate of 200 tons per hour.

(c) Pursuant to 326 IAC 6-3-2, the allowable particulate matter (PM) from B5-Lime Silo A Bin Vent Filter, B6-Lime Silo B Bin Vent Filter and B7-Fly Ash Day Bin Vent Filter shall not exceed 37.27 pounds per hour when operating at a process weight rate of 22 tons per hour.

The pound per hour limitation was calculated with the following equation:

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

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

P = process weight rate in tons per hour

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:

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

The filters, bin vent filter and the dust collector shall be in operation at all times that these emission units sre in operation, in order to comply with this limit.

326 IAC 6-4 (Fugitive Dust Emissions)

Fugitive dust from the vehicle traffic on paved roads shall not 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).

Compliance Determination and Monitoring Requirements

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

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

The Compliance Determination Requirements applicable to this modification are as follows:

	Summary of Testing Requirements					
Emission Unit	**Control Device**	**No of Control Device required to be tested**	**Timeframe for Testing**	**Pollutant**	**Frequency of Testing**	**Limit or Requirement**
Pneumatic fly ash transfer system	Bin Vent Filter	2	Within 180 days after startup	PM, PM10 and PM2.5	Every five (5) years	326 IAC 2-2 and 326 IAC 6-3-2
Pneumatic fly ash transfer system, Loading of fly ash, Truck loading of two (2) new lime silos and fly ash day bin	Bin Vent Filter	2	Within 180 days after startup	PM, PM10 and PM2.5	Every five (5) years	326 IAC 2-2 and 326 IAC 6-3-2
Pneumatic fly ash transfer system	Dust Collector C1 (with a spare ductcollector	1	Within 180 days after startup	PM, PM10 and PM2.5	Every five (5) years	326 IAC 2-2 and 326 IAC 6-3-2

	C2)					

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

Control	Parameter	Frequency	Range	Excursions and Exceedances	Limits and Requirements
Pneumatic fly ash transfer system (Dust Collector, C1)	Water Pressure Drop	Daily	2 to 5 inches	Response Steps	326 IAC 2-2, 326 IAC 6-3-2 and 40 CFR 64
	Visible Emissions		Normal-Abnormal		

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T 051-27086-00013. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change 1:

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:
.....

(j) Dry fly ash handling system , including the following:

(1) one (1) pneumatic fly ash transfer system from existing precipitator hoppers for Units 1, 2, and 3 equipped with separators/exhausters designated as A1, A2, A3 (spare) A4, A5, A6 (spare), A7 & A8 to two (2) new transfer stations designated as B1 & B2 each with a maximum capacity of 200 tons per hour. The particulate emissions from each transfer station silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(2) one (1) pneumatic fly ash transfer system conveying ash from the two (2) transfer station silos to two (2) new fixation silos designated as B3 & B4 each with a maximum capacity of 200 tons per hour. The particulate emissions from each fixation silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(3) one (1) pneumatic fly ash transfer system equipped enclosed screw conveyers from the two (2) fixation silos to a new Fixation Building with particulate emissions controlled by a dust collector C1 (with a spare dust collector C2).

(4) Loading of fly ash into trucks for transport to the landfill from fixation silos B3 & B4 using wet unloaders.

(5) Truck loading of two (2) new lime silos designated B5 & B6 for use in the Fixation Building, each with bin-vent filters controlling particulate matter emissions to 0.01 gr/dscf.

(6) One (1) fly ash day bin designated B7 with a maximum capacity of 200 tons per hour with particulate matter emissions controlled by a bin-vent filter to 0.01 gr/dscf.

SECTION D.11 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-7-5(15)]:

(j) Dry fly ash handling system:

(1) one (1) pneumatic fly ash transfer system from existing precipitator hoppers for Units 1, 2, and 3 equipped with separators/exhausters designated as A1, A2, A3 (spare) A4, A5, A6 (spare), A7 & A8 to two (2) new transfer stations designated as B1 & B2 each with a maximum capacity of 200 tons per hour. The particulate emissions from each transfer station silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(2) one (1) pneumatic fly ash transfer system conveying ash from the two (2) transfer station silos to two (2) new fixation silos designated as B3 & B4 each with a maximum capacity of 200 tons per hour. The particulate emissions from each fixation silo will be controlled by bin-vent filters to 0.01 gr/dscf.

(3) one (1) pneumatic fly ash transfer system equipped enclosed screw conveyers from the two (2) fixation silos to a new Fixation Building with particulate emissions controlled by a dust collector C1 (with a spare dust collector C2).

(4) Loading of fly ash into trucks for transport to the landfill from fixation silos B3 & B4 using wet unloaders.

(5) Truck loading of two (2) new lime silos designated B5 & B6 for use in the Fixation Building, each with bin-vent filters controlling particulate matter emissions to 0.01 gr/dscf.

(6) One (1) fly ash day bin designated B7 with a maximum capacity of 200 tons per hour with particulate matter emissions controlled by a bin-vent filter to 0.01 gr/dscf.

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

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

D.11.1 PSD Minor Limits and Particulate Emission Limitation for Manufacturing Processes [326 IAC 2-2] [326 IAC 6-3-2]

In order to make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable, the Permittee shall comply with the following for the Dry fly ash handling system:

(A) The total hours of operation for the Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter shall be less than 5840 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Exhauster 3A and Exhauster 3B shall not exceed 0.188 pounds per hour, each.

(b) PM and PM10 emissions from the Exhauster 1A, Exhauster 1B, Exhauster 2A, and Exhauster 2B shall not exceed 0.28 pounds per hour, each.

(c) PM and PM10 emissions from the U1 Bin Vent Filter and U2 Bin Vent Filter shall not exceed 0.13 pounds per hour, each.

(B) The total hours of operation for the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall be less than 2920 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall not exceed 0.65 pounds per hour, each.

(C) The total hours of operation for the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall be less than 8030 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall not exceed 0.085 pounds per hour, each.

(D) The total hours of operation for the Fly Ash Day Bin vent Filter shall be less than 8395 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM and PM10 emissions from the Fly Ash Day Bin vent Filter shall not exceed 0.12 pounds per hour, each.

(E) PM and PM10 emissions from the Dust Collector A shall not exceed 0.386 pounds per hour, each.

Compliance with these limits will limit the potential to emit of PM and PM_{10} emissions from the dry fly ash handling system to less than 25 and15 per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2011 modification.

This will also satisfy the rule 326 IAC 6-3-2 for the emission units being constructed in 2011.

D.11.2 Nonattainment New Source Review [326 IAC 2-1.1-5]

In order to make the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable, the Permittee shall comply with the following for the Dry fly ash handling system:

(A) The total hours of operation for the Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter shall be less than 5840 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Exhauster 3A and Exhauster 3B shall not exceed 0.188 pounds per hour, each.

(b) PM2.5 emissions from the Exhauster 1A, Exhauster 1B, Exhauster 2A, and Exhauster 2B shall not exceed 0.28 pounds per hour, each.

(c) PM2.5 emissions from the U1 Bin Vent Filter and U2 Bin Vent Filter shall not exceed 0.13 pounds per hour, each.

(B) The total hours of operation for the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall be less than 2920 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter shall not exceed 0.65 pounds per hour, each.

(C) The total hours of operation for the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall be less than 8030 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter shall not exceed 0.085 pounds per hour, each.

(D) The total hours of operation for the Fly Ash Day Bin vent Filter shall be less than 8395 hours per twelve (12) consecutive month period, with compliance determined at the end of each month.

(a) PM2.5 emissions from the Fly Ash Day Bin vent Filter shall not exceed 0.12 pounds per hour.

(E) PM2.5 emissions from the Dust Collector A shall not exceed 0.386 pounds per hour.

Compliance with these limits will limit the potential to emit of $PM_{2.5}$ emissions from the dry fly ash handling system to less than 10 tons per year and render the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable to the 2011 modification.

D.11.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.11.4 Particulate Control [326 IAC 2-7-6(6)]

(a) In order to comply with Conditions D.11.1 and D.11.2, the filters, bin vent filter and the dust collectors for particulate control shall be in operation and control emissions from these emission units at all times that these emission units are in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for 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.

D.11.5 Testing requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within 180 days after the initial startup of the pneumatic fly ash transfer system, compliance with the PM, PM10 and PM2.5 limitations in Conditions D.11.1(A)(a), (b) and D.11.2 A (a) and (b) shall be determined by a performance stack test on two (2) of the eight (8) separator/exhausters using methods as approved by the Commissioner. This testing shall be at least once every 5 years from the date of the last valid compliance demonstration. The separator/exhauster tested shall be the unit in which the longest amount of time has elapsed since its previous test. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

(b) Within 180 days after the initial startup of the pneumatic fly ash transfer system, compliance with the PM, PM10 and PM2.5 limitations in Conditions D.11.1A (c), B(a) (C) (a), D(a) and D.11.2 A (c), B(a, C(a) and D(a) shall be determined by a performance stack test on two (2) of the seven (7) silo bin vent filters using methods as approved by the Commissioner. This testing shall be at least once every 5 years from the date of the last valid compliance demonstration. The bin vent filters tested shall be the unit in which the longest amount of time has elapsed since its previous test. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

(c) Within 180 days after the initial startup of the pneumatic fly ash transfer system, compliance with the PM, PM10 and PM2.5 limitations in Conditions D.11.1(E) and D.11.2 (E) shall be determined by a performance stack test on one (1) of the two (2) fixation building dust collectors using methods as approved by the Commissioner. This testing shall be at least once every 5 years from the date of the last valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

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

D.11.6 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of the truck loading and unloading stations shall be performed at least once per day during normal daylight operations when ash is being loaded and unloaded. A trained employee shall record whether any emissions are normal or abnormal.

(b) Visible emission notations of the separator/exhausters shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(c) Visible emission notations of the silo bin vent filters shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(d) Visible emission notations of the fixation building dust collector exhaust shall be performed at least once per day during normal daylight operations when the pin-paddle mixers are operating. A trained employee shall record whether emissions are normal or abnormal.

(e) Visible emissions of the landfill area shall be performed at least once per day during normal daylight hours. A trained employee shall record whether emissions are normal or abnormal.

(f) 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. Failure to take response steps, shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(g) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(h) 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.

(i) 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.

(j) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

D.11.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

The Permittee shall record the pressure drop across the dust collector C1 used in conjunction with the Pneumatic fly ash transfer system **at least once per day when this process is in operation and exhausting to the atmosphere.**

When for any one reading, the pressure drop across the dust collector is outside the normal range of 2.0 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.11.8 Broken or Failed Bag Detection [40 CFR 64]

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19] [40 CFR 64]

D.11.9 Record Keeping Requirements [40 CFR 64]

(a) To document the compliance status with Conditions D.11.1 (A), (B), (C), (D), D.11.2 (A), (B), (C), and (D), the Permittee shall maintain monthly records of hours of operation of the Dry fly ash handling system.

(b) To document the compliance status with Condition D.11.6 - Visible Emission Notation, the Permittee shall maintain records of visible emission notations of truck loading and unloading stations, separator/exhausters, silo bin vent filters, fixation building dust collector exhaust and the landfill area once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(c) To document the compliance status with Condition D.11.7-Baghouse Parametric Monitoring, the Permittee shall maintain records once per day of the pressure drop for dust collector C1 during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

(d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.11.10 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.11.1 (A), (B), (C), (D) and D.11.2 (A), (B), (C) and (D) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: **Duke Energy Indiana, Inc. - Gibson Generating Station**
Source Address: **1097 N 950 W, Owensville, Indiana 47665**

Part 70 Permit No.: **T 051-27086-00013**
Facility: **Exhauster 3A, Exhauster 3B, Exhauster 1A, Exhauster 1B, Exhauster 2A, Exhauster 2B, U1 Bin Vent Filter and U2 Bin Vent Filter**
Pollutants: **PM PM_{10} and $PM_{2.5}$**
Parameter: **Number of hours of operation**
Limit: **Less than 5840 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.**

QUARTER : **YEAR:**

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ **No deviation occurred in this quarter.**

☐ **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: **Duke Energy Indiana, Inc. - Gibson Generating Station**
Source Address: **1097 N 950 W, Owensville, Indiana 47665**
Part 70 Permit No.: **T 051-27086-00013**
Facility: **Remotely Fly Ash Silo A Bin Vent Filter and Remotely Fly Ash Silo B Bin Vent Filter**
Pollutants: **PM PM_{10} and $PM_{2.5}$**
Parameter: **Number of hours of operation**

Limit: **Less than 2920 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.**

QUARTER : **YEAR:**

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ **No deviation occurred in this quarter.**

☐ **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: **Duke Energy Indiana, Inc. - Gibson Generating Station**
Source Address: **1097 N 950 W, Owensville, Indiana 47665**
Part 70 Permit No.: **T 051-27086-00013**
Facility: **Lime Silo A Bin Vent Filter and Lime Silo B Bin Vent Filter**
Pollutants: **PM PM_{10} and $PM_{2.5}$**
Parameter: **Number of hours of operation**
Limit: **Less than 8030 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.**

QUARTER : **YEAR:**

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ **No deviation occurred in this quarter.**

☐ **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Duke Energy Indiana, Inc. - Gibson Generating Station
Source Address: 1097 N 950 W, Owensville, Indiana 47665
Part 70 Permit No.: T 051-27086-00013
Facility: Fly Ash Day Bin vent Filter
Pollutants: PM PM_{10} and $PM_{2.5}$
Parameter: Number of hours of operation
Limit: Less than 8395 hours each per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : **YEAR:**

Month	Number of Hours of Operation	Number of Hours of Operation	Number of Hours of Operation
	This Month	Previous 11 Months	12 Month Total
Month 1			

Month 2			
Month 3			

☐ **No deviation occurred in this quarter.**

☐ **Deviation/s occurred in this quarter.**
Deviation has been reported on:

Submitted by: _____
Title / Position:_____
Signature:_____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

Other Changes

Upon further review IDEM, OAQ has made the following changes to the Title V permit No. 051-27086-00013. (deleted language appears as ~~strikout~~ and the new language **bolded**):

Summary of Global Permit Changes

Change 1: These are the summaries from the Global Changes to the permit except Conditions D.7.4, D.9.3 and D.10.2 - Fugitive Dust Emission Limitations that are no longer needed in the permit. Section G - Nitrogen Oxides Budget Trading Program has been replaced in the permit with the Clean Air Interstate (CAIR), therefore, the condition associated with this Section has been deleted from the permit.

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

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 1, by October 2010 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with **the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing **contains the Permittee's obligations with regard to the performance testing required by this condition**.

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

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

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.

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

.....

D.1.13 Record Keeping Requirements

(a) To document **the** compliance **status** with Section C - Opacity and Conditions D.1.1 - PSD BACT Requirements, D.1.2 - Temporary Alternative Opacity Limitations, D.1.7 - Continuous Emissions Monitoring, D.1.9 - Transformer-Rectifier (T-R) Sets, and D.1.10 - Opacity readings, the Permittee shall maintain records in accordance with (1) through (4) below.

.....

(b) To document **the** compliance **status** with Conditions D.1.3 - Sulfur Dioxide (SO_2) and Pollution Control Project, D.1.8 - Sulfur Dioxide Emissions, and D.1.6(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO_2 continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

(c) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

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

(b) A quarterly report of the SO_2 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~~ **not later than thirty (30) days following the end of each calendar quarter**.. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition**.

.....

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

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 2, by October 2010 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with **the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing **contains the Permittee's obligations with regard to the performance testing required by this condition**.

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

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

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.

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

.....

D.2.13 Record Keeping Requirements

(a) To document **the** compliance **status** with Section C - Opacity and Conditions D.2.1 - PSD BACT Requirements D.2.2 -Temporary Alternative Opacity Limitations, D.2.7 - Continuous Emissions Monitoring, D.2.9 - Transformer-Rectifier (T-R) Sets, and D.2.10 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

.....

(b) To document **the** compliance **status** with Conditions D.2.3 - Sulfur Dioxide (SO_2) and Pollution Control Project, D.2.8 - Sulfur Dioxide Emissions, and D.2.6(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO_2 continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

(c) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

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

(b) A quarterly report of the SO_2 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~~ **not later than thirty (30) days following the end of each calendar quarter**.. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition**.

.....

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

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 3, by October 2009 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with **the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing **contains the Permittee's obligations with regard to the performance testing required by this condition**.

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

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

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.

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.3.13 Record Keeping Requirements

(a) To document **the** compliance **status** with Section C - Opacity and Conditions D.3.1 - PSD BACT Requirements, D.3.2 - Temporary Alternative Opacity Limitations, D.3.7 - Continuous Emissions Monitoring, D.3.9 - Transformer-Rectifier (T-R) Sets, and D.3.10 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

.....

(b) To document **the** compliance **status** with Conditions D.3.3 - Sulfur Dioxide (SO_2) and Pollution Control Project, D.3.8 - Sulfur Dioxide Emissions, and D.3.6(b) - Operation of Electrostatic Precipitator and Flue Gas Desulfurization (FGD), the Permittee shall maintain all SO_2 continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g), with calendar dates and beginning and ending times of any CEM downtime.

(c) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

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

(b) A quarterly report of the SO_2 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~~ **not later than thirty (30) days following the end of each calendar quarter**. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition**.

.....

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

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

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

In order to determine compliance with PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 4, by October 2009 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with **the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing **contains the Permittee's obligations with regard to the performance testing required by this condition**.

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

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

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.

.....

(b) **********

Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances,~~ shall be considered a deviation from this permit. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.4.14 Record Keeping Requirements

(a) To document **the** compliance **status** with Section C - Opacity and Conditions D.4.1 - PSD BACT Requirements, D.4.2 - Temporary Alternative Opacity Limitations, D.4.8 - Continuous Emissions Monitoring, D.4.10 - Transformer-Rectifier (T-R) Sets, and D.4.11 - Opacity Readings, the Permittee shall maintain records in accordance with (1) through (4) below.

.....

(b) To document **the** compliance **status** with SO_2 Conditions D.4.3 - Sulfur Dioxide (SO_2), D.4.8 - Continuous Emissions Monitoring, D.4.9 - Sulfur Dioxide Emissions, D.4.7 - Flue Gas Desulfurization (FGD) System, and D.4.12 - SO_2 Monitor Downtime, the Permittee shall maintain records in accordance with (1) through (3) below.

.....

(c) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

D.4.15 Reporting Requirements

(a) A quarterly report of opacity exceedances and a quarterly summary of the information to document **the** compliance **status** 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~~ **not later than thirty (30) days following the end of each calendar quarter**. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements**

of 326 IAC 2-7-6(1) by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.**

.....

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

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

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

In order to determine compliance with the PM limitation, the Permittee shall perform PM testing for the dry-bottom pulverized coal-fire boiler, identified as Boiler 5, by October 2009 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with **the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing **contains the Permittee's obligations with regard to the performance testing required by this condition**.

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

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

.....

D.5.16 Record Keeping Requirements

(a) To document **the** compliance **status** with Section C - Opacity and Conditions D.5.1- New Source Performance Standard (NSPS), D.5.2 - PSD BACT Requirements, D.5.3 - Temporary Alternative Opacity Limitations, D.5.10 - Continuous Emissions Monitoring, and D.5.12 - Transformer-Rectifier (T-R) Sets, the Permittee shall maintain records in accordance with (1) through (4) below.

.....

(b) To document **the** compliance **status** with Conditions D.5.1 - New Source Performance Standard (NSPS), D.5.4 - Sulfur Dioxide (SO_2), D.5.9 - Flue Gas Desulfurization (FGD) System, D.5.10 - Continuous Emissions Monitoring, D.5.11 - Sulfur Dioxide Emissions, and D.5.13 - 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 SO_2 limits as required in Conditions D.5.4 - Sulfur Dioxide (SO_2), and D.5.9 - Flue Gas Desulfurization (FGD) System. The Permittee shall maintain records in accordance with (2) and (3) below during SO_2 CEM system downtime if a backup CEM is not used.

.....

(c) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

D.5.17 Reporting Requirements

(a) A quarterly report of opacity exceedances and a quarterly summary of the information to document **the** compliance **status** with Conditions D.5.1 - New Source Performance Standard (NSPS), and D.5.4 - Sulfur Dioxide (SO_2), 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~~ **not later than thirty (30) days following the end of each calendar quarter**. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition**.

(b) To document **the** compliance **status** 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.

.....

D.6.1 Particulate **Emission Limitations for Manufacturing Processes** [326 IAC 6-3-2]

.....

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~~ **A Preventive Maintenance Plan (PMP) is required for for the watering system and the telescopic. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

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

(a) ********

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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

(b) *********

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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.6.5 Record Keeping Requirements

(a) To document **the** compliance **status** with Condition D.6.4 - Visible Emissions Notations, the Permittee shall maintain records of the weekly 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).

(b) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

D.7.2 Particulate **Emission Limitations for Manufacturing Processes** [326 IAC 6-3-2]

.....

~~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:~~

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

~~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:~~

$$\cancel{P_R = (1.5 \pm N)\,P}$$

~~Where~~
~~N = Fraction of fugitive dust that is respirable dust;~~
~~P_R = allowable percentage increase in dust concentration above background;~~
~~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.~~

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

(a) **********

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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

(b) **********

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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

(c) **********

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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.7.~~8~~**7** Record Keeping Requirements

(a) To document **the** compliance **status** with Section C - Opacity and Condition D.7.**6**~~7~~ - Visible Emissions Notations, the Permittee shall maintain records of the weekly 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).

(b) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

D.8.1 Particulate **Emission Limitations for Manufacturing Processes** [326 IAC 6-3-2]

.....

~~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:~~

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

~~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:~~

$$\cancel{P_R = (1.5 \pm N)\,P}$$

~~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~~**3** Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

D.9.~~7~~**6** Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.9.~~8~~**7** Record Keeping Requirements

(a) **To document the compliance status with Condition D.9.6**, ~~The~~ **the** Permittee shall maintain records of the weekly 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.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

D.10.1 Particulate **Emission Limitations for Manufacturing Processes** [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:

~~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:~~

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

~~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:~~

$$\cancel{P_R = (1.5 \pm N)\,P}$$

~~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~~**2** Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

D.10.~~5~~**4** Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

.....

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

(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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

D.10.~~6~~**5** Record Keeping Requirements

(a) **To document the compliance status with Condition D.10.4**, the ~~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.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

~~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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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 (SO_2) 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: Boiler No. 1, Boiler No. 2, Boiler No. 3, Boiler No. 4, and Boiler No. 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251~~

~~(d) Where 326 IAC 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.~~

Summary of Global Permit Changes to Section B and C.

Change 1: IDEM has made the following changes throughout the permit:

... require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)**...

...by ~~the~~ **a** "responsible official"...

...by ~~the~~ **a** responsible official...

Change 2: IDEM has added clarification to Condition B.15, Permit Term, as follows:

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~~ **The Part 70 Operating Permit**, T XXX-XXXXX-XXXXX, is issued for a fixed term of five (5) years ~~from the issuance date of this permit,~~ as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) ...

Change 3: There may be times when it is unnecessary for a responsible official to "certify" additional information requested by IDEM; therefore, paragraph (a) of Condition B.7, Duty to Provide Information, is revised as follows:

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 a 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) ...

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, any application form, report, or compliance certification submitted shall contain certification by a "responsible official" of truth, accuracy, and completeness. This certification shall state that,~~ **A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:**

(i) it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1 (34), and

(ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) ~~One (1) certification shall be included, using~~ **The Permittee may use** the attached Certification Form ~~or another form meeting the requirements of 326 IAC 2-7-4(f)~~**, or its equivalent**, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

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

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

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

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(i) it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1 (34), and

(ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

Change 4: The Preventive Maintenance Plan requirements have been clarified as follows:

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) for each facility as described in 326 IAC 1-6-3. At a minimum, the PMP shall include:~~

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

(1) Identification of the individual(s) ~~(by job title or description)~~ 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 time frame specified in Section D, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to ~~a violation of any~~ **an exceedance of any** limitation on emissions~~ for that unit~~. The PMPs do not require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(d) *********

Change 5: The emergency provisions requirements have been clarified as follows:

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

(a) (b) ...

(1) - (3) ...

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, ~~within~~ **no later than** four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

...

(5) ...

~~within~~ **no later than** two (2) working days of the time when emission limitations were exceeded due to the emergency.

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

(A) - (C) ...

The notification which shall be submitted by the Permittee does not require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(6) ...

(c) - (g) ...

~~(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

Change 6: IDEM has removed the Condition B.15, Deviations from Permit Requirements and Conditions, and moved the requirements to Condition C.21, General Reporting Requirements, as follows:

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

~~(a) Deviations from any permit requirements for any deviation for which a report is specifically required under Section D (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:~~

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

~~using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. Notwithstanding this condition, 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.~~

Change 7: The General Reporting Requirements have been clarified as follows:

~~C.21~~**C.20** General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent ~~as set out at Condition B.15 – Deviations from Permit Requirements and Conditions~~. **Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**

(b) ~~Reports required by conditions in Section D of this permit shall be submitted to~~ **The address for report submittal is**:

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

(c) **********

~~(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted no later than thirty (30) days after the end of the reporting period. Unless otherwise specified in this permit, all reports required in Section D do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(e)~~**(d)** **********

~~(f)~~ **(e)** If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, and the project meets the following criteria:

(1) - (2) ...

(f) *******

(g) The~~n the Permittee shall submit the~~ report for a project at an existing emissions unit no later than sixty (60) days after the end of the year~~, which~~ shall contain the following:

(1) - (3) ...

(4) Any other information that the Permittee ~~deems fit~~ **wishes** to include in this report **such as an explanation as to why the emissions differ from the preconstruction project**.

...

(h) **********

Change 8: The Permit Modification, Reopening, Revocation and Reissuance, or Termination provisions have been clarified as follows:

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

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

...

Change 9: The Permit Renewal requirements have been clarified as follows:

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(b) ...

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the reasonable deadline specified**, pursuant to 326 IAC 2-7-4(a)(2)(D),** in writing by IDEM, OAQ any additional information identified as being needed to process the application.

Change 10: The words "or notice" have been added to Condition B.19(a) as follows:

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

(b) ...

Change 11: The Operational Flexibility provisions have been clarified as follows:

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

...

(b) **********

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~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

...

Change 12: The Transfer of Ownership or Operational Control provisions have been clarified as follows:

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

...

(b) ...

The application which shall be submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

...

Change 13: The Opacity requirements have been clarified as follows:

C.2 Opacity [326 IAC 5-1]

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

(a) - (b) ...

Change 14: The Incineration requirements have been clarified as follows:

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

Change 15: The Performance Testing requirements have been clarified as follows:

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~~ **For performance testing required by this permit, a** test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

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

Change 16: The Compliance Monitoring requirements have been clarified as follows:

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

~~Unless otherwise specified in this permit, for all monitoring and record keeping requirements not already legally required shall be implemented not later than ninety (90) days after permit issuance. The Permittee shall be responsible for installing any equipment described in Section D and initiating any required monitoring related to that equipment. If due to circumstances beyond its reasonable 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:~~

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

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

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

The notification which shall be submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

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

Change 17: The general requirements for Monitoring Methods were removed from Section C as follows (This provision will be included as needed in Section D of the permit.):

~~C.12 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 applicable provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.~~

Change 18: IDEM is revising Condition C.15 as follows:

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

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) ~~Upon detecting an excursion or exceedance, the~~ **The** Permittee shall **take reasonable response steps to** restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing **excess** emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction ~~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~~ **The response** may include, but ~~are~~ **is** not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned **or are returning** to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to ~~within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable~~ **normal or usual manner of operation**.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not **necessarily** limited to, the following:

(1) - (3) ...

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall ~~maintain the following records:~~ **record the reasonable response steps taken.**

~~(1) monitoring data;~~

~~(2) monitor performance data, if applicable; and~~

~~(3) corrective actions taken.~~

Change 19: IDEM is revising paragraph (b) of Condition C.16 as follows:

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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the ~~Permittee shall take appropriate response actions. The~~ Permittee shall submit a description of ~~these~~ **its** response actions to IDEM, OAQ, no later than ~~thirty (30)~~ **seventy-five (75)** days after ~~receipt~~ **the date** 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~~ **no later than** one hundred ~~twenty (120)~~ **eighty (180)** days ~~of receipt~~ **after the date** of the ~~original~~ test ~~results~~. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~twenty (120)~~ **eighty (180)** days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) ...

The response action documents submitted pursuant to this condition do require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34).

Change 20: IDEM is revising paragraph (a) of Condition C.17 as follows:

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

~~(a)~~ Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit ~~by~~ **no later than** July 1 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)~~**(a)** Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

~~(2)~~**(b)** Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "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.~~

Change 21: The General Record Keeping requirements have been revised as follows:

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

(a) ...

(b) Unless otherwise specified in this permit, **for** all record keeping requirements not already legally required**, the Permittee shall be allowed up to** ~~shall be implemented not later than~~ ninety (90) days ~~after~~ **from the date of** permit issuance **or the date of initial start-up, whichever is later, to begin such record keeping**.

(c) - (d) ...

Change 22: The Stratospheric Ozone Protection requirements have been revised as follows:

C.20 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~~ **applicable** 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.~~

Change 23: IDEM agrees to make the following changes throughout Section D of the permit:

~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this unit and its control device.~~ **A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

Testing shall be conducted in accordance with **the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing **contains the Permittee's obligations with regard to the performance testing required by this condition**.

If abnormal emissions are observed, 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 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. **Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

The Permittee shall record the pressure drop across the baghouse used in conjunction with _____ at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of _____ inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~. **Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

To document **the** compliance **status** with _____, the Permittee shall ...

~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~, of this permit.~~ **contains the Permittee's obligations with regard to the record keeping required by this condition.**

These reports shall be submitted not later than thirty (30) calendar days following the end of each calendar quarter**.** ~~and in accordance with Condition~~ **Section** C - General Reporting Requirements ~~of this permit.~~ **contains the Permittee's obligations with regard to the reporting required by this condition**.

A quarterly report of the _____ to document **the** compliance **status** with _____ 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~~ not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition**.

Change 24: The Quarterly Reports have been updated as follows:

EMERGENCY OCCURRENCE REPORT

...

☐ This is an emergency as defined in 326 IAC 2-7-1(12).
- The Permittee must notify the Office of Air Quality (OAQ), ~~within~~ **no later than** four (**4**) **daytime** business hours (1-800-451-6027 or 317-233-0178, ask for Compliance and Enforcement Branch); and
- The Permittee must submit notice in writing or by facsimile ~~within~~ **no later than** two (**2**) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

...

~~Attach a signed certification to complete this report.~~
A certification is not required for this report.

Change 25: The Quarterly Reports have been updated as follows:

Part 70 Quarterly Report

...

Attach a signed certification **that meets the requirements of 326 IAC 2-7-6(1)** to complete this report.

Change 26: The Quarterly Deviation and Compliance Monitoring Report has been updated as follows:

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

...

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements **of this permit**, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

...

Attach a signed certification **that meets the requirements of 326 IAC 2-7-6(1)** to complete this report.

Change 27: Condition C.6 - Motro Vehicle Dust has been removed from the permit because this is no longer a required condition in the permit.

~~C.6 Motor Vehicle Fugitive Dust [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.~~

Change 28: IDEM, OAQ has decided to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.

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: 1000 East Main Street, Plainfield, IN 46168~~

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 051-30403-00013 and Significant Permit Modification No. 051-30405-00013. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Josiah Balogun at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5257) or toll free at 1-800-451-6027 extension (4-5257).

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

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emissions Calculations
Emission Summary

Source Name: Duke Energy Indiana, Inc - Gibson Generating Station
Source Location: 1097 North 950 West, Owensville, IN 47665
Significant Source Number 051-30403-00013
Significant Permit Number: 051-30405-00013
Permit Reviewer: Josiah Balogun
Date: 4-Apr-2011

Uncontrolled Potential to Emit

	PM (tons/yr)	PM_{10} (tons/yr)	$PM_{2.5}$ (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Unit								
Exhauster 3A	270	270	270	0	0	0	0	0
Exhauster 3B	270	270	270	0	0	0	0	0
Exhauster 3C (Spare)	0	0	0	0	0	0	0	0
Exhauster 1A	410	410	410	0	0	0	0	0
Exhauster 1B	410	410	410	0	0	0	0	0
Spare Exhauster	0	0	0	0	0	0	0	0
Exhauster 2A	410	410	410	0	0	0	0	0
Exhauster 2B	410	410	410	0	0	0	0	0
U1 Bin Vent Filter	190	190	190	0	0	0	0	0
U2 Bin Vent Filter	190	190	190	0	0	0	0	0
Remote Fly Ash Silo A Bin Vent Filter	720	720	720	0	0	0	0	0
Remote Fly Ash Silo B Bin Vent Filter	720	720	720	0	0	0	0	0
Lime Silo A Bin Vent Filter	60	60	60	0	0	0	0	0
Lime Silo B Bin Vent Filter	60	60	60	0	0	0	0	0
Fly Ash Day Bin Vent Filter	220	220	220	0	0	0	0	0
Dust Collector A (Note 2)	1690	1690	1690	0	0	0	0	0
Dust Collector B (Spare)	0	0	0	0	0	0	0	0
Total Emissions	6030.00	6030.00	6030.00	0.00	0.00	0.00	0.00	Single HAP <10 Combined HAPs < 25

Appendix A: Emissions Calculations
Emission Summary

Source Name: Duke Energy Indiana, Inc - Gibson Generating Station
Source Location: 1097 North 950 West, Owensville, IN 47665
Significant Source Number 051-30403-00013
Significant Permit Number: 051-30405-00013
Permit Reviewer: Josiah Balogun
Date: 4-Apr-2011

Limited Potential to Emit

	PM (tons/yr)	PM_{10} (tons/yr)	$PM_{2.5}$ (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Unit								
Exhauster 3A	0.55	0.55	0.55	0	0	0	0	0
Exhauster 3B	0.55	0.55	0.55	0	0	0	0	0
Exhauster 3C (Spare)	0	0	0	0	0	0	0	0
Exhauster 1A	0.83	0.83	0.83	0	0	0	0	0
Exhauster 1B	0.83	0.83	0.83	0	0	0	0	0
Spare Exhauster	0	0	0	0	0	0	0	0
Exhauster 2A	0.83	0.83	0.83	0	0	0	0	0
Exhauster 2B	0.83	0.83	0.83	0	0	0	0	0
U1 Bin Vent Filter	0.38	0.38	0.38	0	0	0	0	0
U2 Bin Vent Filter	0.38	0.38	0.38	0	0	0	0	0
Remote Fly Ash Silo A Bin Vent Filter	0.95	0.95	0.95	0	0	0	0	0
Remote Fly Ash Silo B Bin Vent Filter	0.95	0.95	0.95	0	0	0	0	0
Lime Silo A Bin Vent Filter	0.34	0.34	0.34	0	0	0	0	0
Lime Silo B Bin Vent Filter	0.34	0.34	0.34	0	0	0	0	0
Fly Ash Day Bin Vent Filter	0.5	0.5	0.5	0	0	0	0	0
Dust Collector A (Note 2)	1.69	1.69	1.69	0	0	0	0	0
Dust Collector B (Spare)	0	0	0	0	0	0	0	0
Total Emissions	9.95	9.95	9.95	0.00	0.00	0.00	0.00	Single HAP <10 Combined HAPs < 25

Emission Calculations

Device	Device Name	Event	Media	Hrs/day Operation	Flow Rate (dscf)	Emission Rate	Units	Emission gr/day	Emission Ton/yr
A1	Exhauster 3A	Pull	Fly Ash	16	2186	0.01	gr/dscf	20985.6	0.55
A2	Exhauster 3B	Pull	Fly Ash	16	2186	0.01	gr/dscf	20985.6	0.55
A3	Exhauster 3C (Spare)	Pull	Fly Ash	0	2186	0.01	gr/dscf	0	0.00
A4	Exhauster 1A	Pull	Fly Ash	16	3307	0.01	gr/dscf	31747.2	0.83
A5	Exhauster 1B	Pull	Fly Ash	16	3307	0.01	gr/dscf	31747.2	0.83
A6	Spare Exhauster	Pull	Fly Ash	0	3307	0.01	gr/dscf	0	0.00
A7	Exhauster 2A	Pull	Fly Ash	16	3307	0.01	gr/dscf	31747.2	0.83
A8	Exhauster 2B	Pull	Fly Ash	16	3307	0.01	gr/dscf	31747.2	0.83
B1	U1 Bin Vent Filter	Transfer	Fly Ash	16	1503	0.01	gr/dscf	14428.8	0.38
B2	U2 Bin Vent Filter	Transfer	Fly Ash	16	1503	0.01	gr/dscf	14428.8	0.38
B3	Remote Fly Ash Silo A Bin Vent Filter	Transfer	Fly Ash	8	7620	0.01	gr/dscf	36576	0.95
B4	Remote Fly Ash Silo B Bin Vent Filter	Transfer	Fly Ash	8	7620	0.01	gr/dscf	36576	0.95
B5	Lime Silo A Bin Vent Filter	Transfer	Lime	22	1000	0.01	gr/dscf	13200	0.34
B6	Lime Silo B Bin Vent Filter	Transfer	Lime	22	1000	0.01	gr/dscf	13200	0.34
B7	Fly Ash Day Bin Vent Filter	Transfer	Fly Ash	23	1400	0.01	gr/dscf	19320	0.50
C1	Dust Collector A (Note 2)	Pull	Lime/Fly Ash	24	4500	0.01	gr/dscf	64800	1.69
C2	Dust Collector B (Spare)	Pull	Lime/Fly Ash	0	4500	0.01	gr/dscf	0	0.00
							Annual Tons		**9.95**

Note: 1) Dust detectors are located down stream fo the Filter/Separators and before the inlet of the Mechanical Exhausters to detect the presence of ash in the conveying air stream. If ash is detected the Exhauster is shut off for Filter/Separator repairs or the system is set up to pull through the redundant Filter/Separator.

Note: 2) The dust collectors pull a vacuum off the pug mill feed chute to minimize dusting in the Fixation Building.

gr/day = hrs/day x flow rate x emission rate x 60

tons/yr = gr/day x 365 / 7000 / 2000

Emission Calculations (Tons/Yr)

Device	Device Name	Uncontrolled			Controlled		
		PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$
A1	Exhauster 3A	270	270	270	0.27	0.27	0.27
A2	Exhauster 3B	270	270	270	0.27	0.27	0.27
A3	Exhauster 3C (Spare)	0	0	0	0	0	0
A4	Exhauster 1A	410	410	410	0.41	0.41	0.41
A5	Exhauster 1B	410	410	410	0.41	0.41	0.41
A6	Spare Exhauster	0	0	0	0	0	0
A7	Exhauster 2A	410	410	410	0.41	0.41	0.41
A8	Exhauster 2B	410	410	410	0.41	0.41	0.41
B1	U1 Bin Vent Filter	190	190	190	0.19	0.19	0.19
B2	U2 Bin Vent Filter	190	190	190	0.19	0.19	0.19
B3	Remote Fly Ash Silo A Bin Vent Filter	720	720	720	0.72	0.72	0.72
B4	Remote Fly Ash Silo B Bin Vent Filter	720	720	720	0.72	0.72	0.72
B5	Lime Silo A Bin Vent Filter	60	60	60	0.06	0.06	0.06
B6	Lime Silo B Bin Vent Filter	60	60	60	0.06	0.06	0.06
B7	Fly Ash Day Bin Vent Filter	220	220	220	0.22	0.22	0.22
C1	Dust Collector A (Note 2)	1690	1690	1690	1.69	1.69	1.69
C2	Dust Collector B (Spare)	0	0	0	0	0	0
Total		6030	6030	6030	6.03	6.03	6.03

Note: 1) Dust detectors are located down stream fo the Filter/Separators and before the inlet of the Mechanical Exhausters to detect the presence of ash in the conveying air stream. If ash is detected the Exhauster is shut off for Filter/Separator repairs or the system is set up to pull through the redundant Filter/Separator.

Note: 2) The dust collectors pull a vacuum off the pug mill feed chute to minimize dusting in the Fixation Building.

Uncontrolled emissions based on control efficiency of 99.9%

Emission Calculations (Lbs/Hr)							
Device	**Device Name**	**Uncontrolled**			**Controlled**		
		PM	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**
A1	Exhauster 3A	187.37	187.37	187.37	0.187	0.187	0.187
A2	Exhauster 3B	187.37	187.37	187.37	0.187	0.187	0.187
A3	Exhauster 3C (Spare)	0	0	0	0	0	0
A4	Exhauster 1A	283.46	283.46	283.46	0.283	0.283	0.283
A5	Exhauster 1B	283.46	283.46	283.46	0.283	0.283	0.283
A6	Spare Exhauster	0	0	0	0	0	0
A7	Exhauster 2A	283.46	283.46	283.46	0.283	0.283	0.283
A8	Exhauster 2B	283.46	283.46	283.46	0.283	0.283	0.283
B1	U1 Bin Vent Filter	128.83	128.83	128.83	0.129	0.129	0.129
B2	U2 Bin Vent Filter	128.83	128.83	128.83	0.129	0.129	0.129
B3	Remote Fly Ash Silo A Bin Vent Filter	653.14	653.14	653.14	0.653	0.653	0.653
B4	Remote Fly Ash Silo B Bin Vent Filter	653.14	653.14	653.14	0.653	0.653	0.653
B5	Lime Silo A Bin Vent Filter	85.71	85.71	85.71	0.086	0.086	0.086
B6	Lime Silo B Bin Vent Filter	85.71	85.71	85.71	0.086	0.086	0.086
B7	Fly Ash Day Bin Vent Filter	120.00	120.00	120.00	0.120	0.120	0.120
C1	Dust Collector A (Note 2)	385.71	385.71	385.71	0.386	0.386	0.386
C2	Dust Collector B (Spare)	0	0	0	0	0	0

Limited Emission Calculations				
Device	**Device Name**	**Event**	**Media**	**Emission Ton/yr**
A1	Exhauster 3A	Pull	Fly Ash	0.55
A2	Exhauster 3B	Pull	Fly Ash	0.55
A3	Exhauster 3C (Spare)	Pull	Fly Ash	0.00
A4	Exhauster 1A	Pull	Fly Ash	0.83
A5	Exhauster 1B	Pull	Fly Ash	0.83
A6	Spare Exhauster	Pull	Fly Ash	0.00
A7	Exhauster 2A	Pull	Fly Ash	0.83
A8	Exhauster 2B	Pull	Fly Ash	0.83
B1	U1 Bin Vent Filter	Transfer	Fly Ash	0.38
B2	U2 Bin Vent Filter	Transfer	Fly Ash	0.38
B3	Remote Fly Ash Silo A Bin Vent Filter	Transfer	Fly Ash	0.95
B4	Remote Fly Ash Silo B Bin Vent Filter	Transfer	Fly Ash	0.95
B5	Lime Silo A Bin Vent Filter	Transfer	Lime	0.34
B6	Lime Silo B Bin Vent Filter	Transfer	Lime	0.34
B7	Fly Ash Day Bin Vent Filter	Transfer	Fly Ash	0.50
C1	Dust Collector A (Note 2)	Pull	Lime/Fly Ash	1.69
C2	Dust Collector B (Spare)	Pull	Lime/Fly Ash	0.00
			Annual Tons	**9.95**

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

May 9, 2011

Mack Sims
Duke Energy Indiana, Inc.
1000 East Main Street
Plainfield, IN 46168

Re: Public Notice
Duke Energy Indiana, Inc.
Permit Level: Title V
Permit Number: 051-30405-00013 and 051-30403-00013

Dear Mr. Sims:

Enclosed is a copy of your draft Title V, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has submitted the draft permit package to the Owensville Carnegie Public Library, 110 South Main Street in Owensville, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper. The OAQ has requested that the Princeton Daily Clarion in «NewspaperCitySate» publish this notice no later than May 11, 2011..

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Josiah Balogun, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-5257 or dial (317) 23 4-5257.

Sincerely,
Catherine Denny
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter. dot 3/27/08

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

May 9, 2011

Princeton Daily Clarion
100 North Gibson
POB 30
Princeton, IN 47670

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Duke Energy Indiana, Inc. Gibson County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than May 11, 2011.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Catherine Denny at 800-451-6027 and ask for extension 3-9488 or dial 317-233-9488.

Sincerely,
Catherine Denny
Permit Branch
Office of Air Quality

Permit Level: Title V
Permit Number: 051-30405-00013 & 051-30403-00013

Enclosure
PN Newspaper.dot 3/27/08

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

May 9, 2011

To: Owensville Carnegie Public Library

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Duke Energy Indiana, Inc.
Permit Number: 051-30405-00013 and 051-30403-00013

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 03/27/08

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

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Indianapolis, Indiana 46204
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www.idem.IN.gov

Notice of Public Comment

May 9, 2011
Duke Energy Indiana, Inc.
051-30405-00012 and 051-30403-00013

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 3/27/08

Mail Code 61-53

IDEM Staff	CDENNY 5/9/2011 Duke Energy Indiana, Inc. 051-30405-00013 & 051-30403-00013 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Mack Sims Duke Energy Indiana, Inc. - Gibson Generating Stat 1000 East Main St Plainfield IN 46168 (Source CAATS)									
2		Thomas Guthrie VP Gibson Generating Stn Duke Energy Indiana, Inc. - Gibson Generating Stat c/o Mack Sims 1000 E Main St Plainfield IN 46168 *(RO CAATS)*									
3		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 *(Affected Party)*									
4		Owensville Carnegie Public 110 S Main St Owensville IN 47665-0218 *(Library)*									
5		Princeton City Council and Mayors Office 603 South Main Street Princeton IN 47670 *(Local Official)*									
6		Gibson County Health Department 800 S. Prince St., Courthouse Annex Princeton IN 47670-2664 *(Health Department)*									
7		Eric Anderson 25 Atlantic Avenue Erlanger KY 41018 *(Affected Party)*									
8		Gibson County Commissioners 101 N. Main Street Princeton IN 47670 *(Local Official)*									
9		Mr. Bil Musgrove PO Box 520 Chandler IN 47610 *(Affected Party)*									
10		Mr. John Blair 800 Adams Ave Evansville IN 47713 *(Affected Party)*									
11											
12											
13											
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15											

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