

TO: Interested Parties / Applicant
RE: PSI Energy / 167-19843-00021
FROM: George M. Needham
Director
Vigo County Air Pollution Control

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

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

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

If you have technical questions regarding the enclosed documents, please contact our office at (812) 462-3433.

Via Certified Mail

August 11, 2005

Mr. Steven L. Pearl
PSI Energy, Inc.
1000 East Main Street
Plainfield, Indiana 46168

Re: 167-19843-00021
First Significant Permit Modification to
Part 70 No.: T 167-7176-00021

Dear Mr. Pearl:

PSI Energy, Inc. was issued a permit on September 2, 2004 for a stationary electric generating station. A letter requesting changes to this permit was received on November 12, 2004. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the following: Incorporation of revisions to New Source Performance Standard (NSPS) for Turbines, 40 CFR 60, Subpart GG. These revisions include: the use of a continuous emission monitoring system (CEMS) to replace steam-to-fuel ratios for NOx control; the elimination of fuel bound nitrogen determinations when the Permittee is not claiming any credit for fuel bound nitrogen; and, the removal of certain fuel sulfur analysis requirements when the gaseous fuel being combusted meets the definition of natural gas.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

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 Mr. Rob Harmon, VCAPC, 103 South 3rd Street, Terre Haute, Indiana 47807, or call at (812) 462-3433.

Sincerely,

ORIGINAL SIGNED BY
George M. Needham
Director
Vigo County Air Pollution Control

Attachments

rkh

cc: File – Vigo County
U.S. EPA, Region V
Mindy Hahn – IDEM, OAQ Permit Branch
Winter Bottom – IDEM, OAQ

PART 70 OPERATING PERMIT

**INDIANA DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT - OFFICE OF AIR QUALITY
and
VIGO COUNTY AIR POLLUTION CONTROL**

**PSI Energy, Inc. - Wabash River Generating Station
450 Bolton Road
West Terre Haute, Indiana 47885**

and

**PSI Energy, Inc. - Wabash River Repowering
445 Bolton Road
West Terre Haute, Indiana 47885**

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

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

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

Operation Permit No.: T167-7176-00021	
Original Signed by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: September 2, 2004 Expiration Date: September 2, 2009
First Significant Permit Modification No.: 165-19843-00021	
Issued by: ORIGINAL SIGNED BY: George M. Needham, Director Vigo County Air Pollution Control	Issuance Date: August 11, 2005

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Appendix A: Acid Rain Permit

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Vigo County Air Pollution Control (VCAPC). The information describing the source contained in conditions A.1, A.3, and A.4, 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.

Responsible Official: Manager of the Wabash River Station / Manager of the Wabash River Repowering
Source Address: Wabash River Station - 450 Bolton Road, West Terre Haute, Indiana 47885
Wabash River Repowering - 445 Bolton Road, West Terre Haute, Indiana 47885
Mailing Address: c/o Steven L. Pearl, 1000 East Main Street, Plainfield, Indiana 46168
Source Telephone: (812) 535-2329
SIC Code: 4911
County Location: Vigo County
Source Location Status: Maintenance Attainment for Sulfur Dioxide
Attainment for PM2.5
Nonattainment for ozone under the 8-hour standard
Attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD Rules;
Major Source, under Nonattainment NSR
Major Source, Section 112 of the Clean Air Act
1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This source consists of an electric utility generating station with an on-site contractor that produces and supplies synthetic gas ("syngas") derived from petroleum products :

- (a) PSI Energy, Inc. - Wabash River Generating Station (167-00021), the primary operation, is located at 450 Bolton Road, West Terre Haute, Indiana 47885;
- (b) PSI Energy, Inc. - Wabash River Repowering (167-00021), a co-located but independent operation, is located at 445 Bolton Road, West Terre Haute, Indiana 47885, and
- (c) Wabash River Energy, LLC (167-00091), the supporting operation to Wabash River Repowering, is located at 444 West Sandford Ave., West Terre Haute, Indiana 47885.

IDEM and VCAPC have determined that PSI Energy, Inc. - Wabash River Generating Station and Wabash River Energy, LLC are under the common control of PSI Energy, Inc. These two plants are considered one source due to contractual control. Therefore, the term "source" in the Part 70 documents refers to both PSI Energy, Inc. and Wabash River Energy as one source.

Separate Part 70 permits will be issued to PSI Energy, Inc. with Permit No.: 167-7176-00021 and Wabash River Energy with Permit No.: 167-7353-00091 (issued on December 31, 1998) solely for administrative purposes.

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

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

- 1. Combustion Turbine, identified as Unit 1A, constructed in 1995, with a nominal rated capacity of 1709.1 million BTU per hour (192 megawatt), utilizing syngas or natural gas in combined cycle

- mode and natural gas in simple cycle mode, utilizing steam injection for NO_x control, and exhausting to stack 1A (combined cycle mode) or 1D (simple cycle mode). Stack 1A (combined cycle) has continuous emission monitors for SO₂, NO_x, CO₂, and volumetric flow rate as well as a continuous opacity monitor (COM). Stack 1D (bypass) has continuous emission monitors for NO_x and CO₂.
2. Repowering Auxiliary Boiler fired on natural gas only, identified as Unit 1B, constructed in 1995, with a nominal rated capacity of 144 million BTU per hour, using low NO_x burners as NO_x control, and exhausting to Stack 1B with continuous emission monitors for NO_x and CO₂.
 3. Natural gas fired boiler, identified as Unit 1C, constructed in 2001, with a nominal rated capacity of 397.8 million BTU per hour, using low NO_x burners with flue gas recirculation as NO_x control, and exhausting to stack 1C with continuous emission monitors for NO_x, CO₂, and CO.
 4. Fuel preheater, identified as Unit 1E, constructed in 2001, with a nominal rated capacity of 7.13 million BTU per hour, utilizing natural gas for fuel, using a low emission rate burner for NO_x control, and exhausting to stack 1E.
 5. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 2, constructed in 1953, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 913.8 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
 6. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 3, constructed in 1954, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
 7. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 4, constructed in 1955, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
 8. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 5, constructed in 1956, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 1096.2 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
 9. Tangential fired coal electric utility boiler (pulverized - dry bottom, tangential), identified as Unit 6, constructed in 1968, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 2999.0 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
 10. Coal pile maintenance, identified as F-1.
 11. Coal handling, identified as F-2.
 12. Plant roads, identified as F-4.

13. Diesel Generator, identified as 7A, constructed in 1967, combusting #2 fuel oil, with a nominal rated capacity of 28.6 million BTU per hour, used for intermittent and emergency duty, using no control, and exhausting to stack 7A.
14. Diesel Generator, identified as 7B, constructed in 1967, combusting #2 fuel oil, with a nominal rated capacity of 28.6 million BTU per hour, used for intermittent and emergency duty, using no control, and exhausting to stack 7B.
15. Diesel Generator, identified as 7C, constructed in 1967, combusting #2 fuel oil, with a nominal rated capacity of 28.6 million BTU per hour, used for intermittent and emergency duty, using no control, and exhausting to stack 7C.

A.4 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):

1. Thaw pit Fuel oil tank: 20,000 gallon (constructed 1990) [326 IAC 12][40 CFR 60, Subpart Kb]
2. Coal pile wind erosion [326 IAC 6-1-2][326 IAC 6-4]
3. Lime silo: 1388 cubic feet [326 IAC 6-1-2]
4. Lime day bin: 87 cubic feet [326 IAC 6-1-2]
5. Unit 6 hydroveyor [326 IAC 6-1-2]
6. Degreaser (maintenance shop): 30 gallon (constructed about 1980) [326 IAC 8-3]
7. Ash hydroveyor separator Units 1&2 [326 IAC 6-1-2]
8. Ash hydroveyor separator Units 3&4 [326 IAC 6-1-2]
9. Ash hydroveyor separator Unit 5 [326 IAC 6-1-2]
10. Parts cleaner (electric shop): 30 gallon (constructed about 1980) [326 IAC 8-3]
11. Parts cleaner (main floor storage area): 30 gallon (constructed about 1980) [326 IAC 8-3]
12. Ash pond: 216 acres [326 IAC 6-1-2][326 IAC 6-4]
13. Ash pond management and maintenance [326 IAC 6-1-2]
14. Two (2) Repowering fuel oil storage tank: 99,500 gallon each (constructed in 1993) [326 IAC 12][40 CFR 60, Subpart Kb]
15. Fuel oil tank: 50,000 gallons (constructed in 1986) [326 IAC 12][40 CFR 60, Subpart Kb]

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

SECTION B GENERAL CONDITIONS

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

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

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit 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.3 Enforceability [326 IAC 2-7-7]

-
- (a) 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, VCAPC, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
 - (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by Vigo County Air Pollution Control.

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

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

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

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

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

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

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

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

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

-
- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted under this permit or 326 IAC 2-7 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 or its equivalent, with each submittal requiring certification. One (1) certification can cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ and VCAPC, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and VCAPC. IDEM, OAQ and VCAPC, 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 submittal of the PMP and the PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-7-16 or this condition.
- (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 and VCAPC within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967.

VCAPC

Telephone Number: 812-462-3433
Facsimile Number: 812-462-3447

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

- (e) IDEM, OAQ and VCAPC, 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 and VCAPC, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. Any emergencies that have been previously reported pursuant to Paragraph (b)(5) of this condition and certified by the Responsible Official need only be referenced by the date of the original report.

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

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

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ and VCAPC, 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 or VCAPC, 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 or VCAPC, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

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

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

[326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)].
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or VCAPC, 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 or VCAPC, 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 or VCAPC at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ or VCAPC, 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]

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit;
and

- (B) 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 and VCAPC, on or before the date it is due.
- (2) If IDEM, OAQ and VCAPC, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and VCAPC, take final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by a reasonable deadline specified in writing by IDEM, OAQ and VCAPC, any additional information identified as being needed to process the application. [326 IAC 2-7-4(a)(2)(D) and (E)]
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ and VCAPC, fail to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

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

- (a) The Permittee shall obtain approval as required by 326 IAC 2-7-10.5 from the IDEM, OAQ prior to making any modification to the source. Pursuant to 326 IAC 1-2-42, "Modification" means one (1) or more of the following activities at an existing source:
 - (1) A physical change or change in the method of operation of any existing emissions unit that increases the potential to emit any regulated pollutant that could be emitted from the emissions unit, or that results in emissions of any regulated pollutant not previously emitted.
 - (2) Construction of one (1) or more new emissions units that have the potential to emit regulated air pollutants.
 - (3) Reconstruction of one (1) or more existing emission units that increases the potential to emit of any regulated air pollutant.
- (b) Any application requesting a source modification shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

- (c) The Permittee shall also comply with the applicable provisions of 326 IAC 2-7-11 (Administrative Permit Amendments) or 326 IAC 2-7-12 (Permit Modification) prior to operating the approved modification.

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

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

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

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

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

The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c). The notification requirement per (a)(4) of this condition does not apply to emission trades of SO₂ or NO_x under 326 IAC 21 or 326 IAC 10-4.

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, VCAPC, 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 requirements of part (a) of this condition do not apply.
-

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, VCAPC, 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 permit modification that allows for a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ and VCAPC, 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 or VCAPC, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (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.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on November 14, 1996. The plan is included as Attachment A.

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

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

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

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

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

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

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

C.9 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality

100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

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

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

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

- (a) The Permittee shall calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment. For a boiler, the COM shall be in operation at all times that the induced draft fan is in operation.
- (b) All continuous opacity monitoring systems shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (c) In the event that a breakdown of a continuous opacity monitoring system occurs, a record shall be made of the time and reason of the breakdown and efforts made to correct the problem.
- (d) Whenever a continuous opacity monitor (COM) is malfunctioning or will be down for calibration, maintenance, or repairs for a period of one (1) hour or more, compliance with the applicable opacity limits shall be demonstrated by the following:
 - (1) Visible emission (VE) notations shall be performed once per hour during daylight operations following the shutdown or malfunction of the primary COM. A trained employee shall record whether emissions are normal or abnormal for the state of operation of the emission unit at the time of the reading.
 - (A) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
 - (B) If abnormal emissions are noted during two consecutive emission notations, the Permittee shall begin Method 9 opacity observations within four hours of the second abnormal notation.
 - (C) VE notations may be discontinued once a COM is online or formal Method 9 readings have been implemented.
 - (2) If a COM is not online within twenty-four (24) hours of shutdown or malfunction of the primary COM, the Permittee shall provide certified opacity reader(s), who may be employees of the Permittee or independent contractors, to self-monitor the emissions from the emission unit stack.

- (A) 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.
 - (B) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least once every four (4) hours during daylight operations, until such time that a COM is in operation.
 - (C) Method 9 readings may be discontinued once a COM is online.
 - (D) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.
- (3) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5 and 40 CFR 60.

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]
Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60 Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, 40 CFR 75, or other approved methods as specified in this permit.

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

-
- (a) Whenever a condition in this permit requires the measurement of a voltage, current, temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (± 2%) of full scale reading.
 - (b) The Permittee may request the IDEM, OAQ approve the use of an other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of operating parameters.

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

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on June 30, 1980.
- (b) Upon direct notification by IDEM, OAQ and VCAPC, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5]
[326 IAC 2-7-6]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan under 40 CFR 63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ and VCAPC upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan to include such response steps taken.

The OMM Plan or Parametric Monitoring and SSM Plan shall be submitted within the time frames specified by the applicable 40 CFR 63 requirement.

- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ and VCAPC of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

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

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

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

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

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

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant which is used only for purposes of Section 19 of this rule") from the source, for purposes of Part 70 fee assessment.

- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

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

- (c) The annual 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 and VCAPC, on or before the date it is due.

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or Vigo County Air Pollution Control makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or Vigo County Air Pollution Control within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street

Terre Haute, Indiana 47807

- (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 and VCAPC, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

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

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

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

Ambient Monitoring Requirements [326 IAC 7-3]

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

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

Part 2 MACT Application Submittal Requirement

C.24 Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)][40 CFR 63.56(a)]
[40 CFR 63.9(b)] [326 IAC 2-7-12]

- (a) The Permittee shall submit a Part 2 Maximum Achievable Control Technology (MACT) Application in accordance with 40 CFR 63.52(e)(1). The Part 2 MACT Application shall meet the requirements of 40 CFR 63.53(b).
- (b) Notwithstanding paragraph (a), the Permittee is not required to submit a Part 2 MACT Application if the Permittee no longer meets the applicability criteria of 40 CFR 63.50 by the application deadline in 40 CFR 63.52(e)(1). For example, the Permittee would not have to submit a Part 2 MACT Application if, by the application deadline:
- (1) The source is no longer a major source of hazardous air pollutants, as defined in 40 CFR 63.2;
 - (2) The source no longer includes one or more units in an affected source category for which the U.S. EPA failed to promulgate an emission standard by May 15, 2002; or
 - (3) The MACT standard or standards for the affected source categories included at the source are promulgated.
- (c) Notwithstanding paragraph (a), pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The initial notification shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

and

United States Environmental Protection Agency, Region V
Director, Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

SECTION D.1 FACILITY OPERATION CONDITIONS

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

Combustion Turbine, identified as Unit 1A, constructed in 1995, with a nominal rated capacity of 1709.1 million BTU per hour (192 megawatt), utilizing syngas or natural gas in combined cycle mode and natural gas in simple cycle mode, utilizing steam injection for NO_x control, and exhausting to stack 1A (combined cycle mode) or 1D (simple cycle mode). Stack 1A (combined cycle) has continuous emission monitors for SO₂, NO_x, CO₂, and volumetric flow rate as well as a continuous opacity monitor (COM). Stack 1D (bypass) has continuous emission monitors for NO_x and CO₂.

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

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

D.1.1 General Provisions Relating to NSPS [326 IAC 12][40 CFR 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated under 326 IAC 12, apply to the combustion turbine (Unit 1A) except when otherwise specified in 40 CFR Part 60, Subpart GG.

D.1.2 NSPS Nitrogen Oxide Standard [326 IAC 12][40 CFR 60.332]

Pursuant to 40 CFR 60.332(a)(1) and 40 CFR 60.332(b) the Permittee shall not allow to be discharged into the atmosphere, any gases which contain nitrogen oxides in excess of 0.0075 percent (%) (75 ppm @ 15% oxygen, dry basis). This is based on the following equation:

$$\text{STD} = 0.0075 * (14.4/Y) + F$$

where:

- STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis);
Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at peak load for the facility; and
F = NO_x emission allowance for fuel-bound nitrogen as defined in paragraph (a)(3) of 40 CFR 60.332.

Exemptions:

- (a) Pursuant to 40 CFR 60.332(f), stationary gas turbines using water or steam injection for control of NO_x emissions are exempt from the nitrogen oxide standard when ice fog is deemed a traffic hazard by the Permittee.
- (b) Pursuant to 40 CFR 60.332(i), exemptions from the nitrogen oxide standard may be granted on a case-by-case basis in specific geographical areas where mandatory water restrictions are required by governmental agencies because of drought conditions. These exemptions will be allowed only while the mandatory water restrictions are in effect.

D.1.3 Nitrogen Oxide Emission Limitation [326 IAC 2-2]

Pursuant to CP 167-2610-00021 (Issued May 27, 1993), the nitrogen oxides (NO_x) emissions from the gas turbine shall not exceed 25 ppm_{dv} at 15 percent oxygen for syngas or natural gas combustion.

D.1.4 NSPS Standard for Sulfur Dioxide [326 IAC 12][40 CFR 60.333]

Pursuant to 40 CFR 60.333, the Permittee shall comply with one of the two following requirements:

- (a) The Permittee shall not discharge into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15% oxygen and on a dry basis; OR
- (b) The Permittee shall not burn any fuel which contains sulfur in excess of 0.8 percent by weight.

D.1.5 Carbon Monoxide BACT [326 IAC 2-2-3][40 CFR 52.21]

Pursuant to CP 167-2610-00021 (Issued May 27, 1993, as amended in 2001), 326 IAC 2-2, and 40 CFR 52.21, the best available control technology (BACT) for carbon monoxide shall be good combustion practices. CO emissions shall not exceed 15 ppm when burning syngas or natural gas corrected to 15% oxygen at 75% or greater load. The practice and instrumentation plan shall be submitted to the VCAPC along with the methods and parameters which are based on test results to ensure continued compliance.

D.1.6 Sulfuric Acid Mist BACT [326 IAC 2-2-3][40 CFR 52.21]

Pursuant to CP 167-2610-00021 (Issued May 27, 1993), 326 IAC 2-2, and 40 CFR 52.21, the best available control technology (BACT) for sulfuric acid mist shall be: a) 0.01 lb of sulfuric acid (H₂SO₄) mist per million BTU by limiting the sulfur content of the syngas to 360 ppm or less as measured by a gas chromatograph, and b) design exit gas temperature from the Heat Recovery Steam Generator (HRSG) to be at least 264 °F.

D.1.7 Opacity Limitations

Pursuant to CP 167-2610-00021 (Issued May 27, 1993), the opacity from Unit 1A (exhausting to stack 1A) shall be limited to 20 percent. PSI Energy may request a special exemption pursuant to 326 IAC 5-1-3(d) if proper operation of the turbine justifies such a request. Compliance shall be determined by continuous opacity monitoring in accordance with 40 CFR 75.14. Per 40 CFR 75.14(c), opacity monitoring is not required for when the turbine is operated in simple cycle mode using natural gas only and exhausting through stack 1D.

D.1.8 Particulate Matter [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2(a), the PM emissions from the combustion turbine stack shall not exceed 0.03 grains per dry standard cubic foot.

D.1.9 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 emissions unit and its control device.

D.1.10 Unit 1 Removal [326 IAC 2-2]

Pursuant to CP 167-2610-00021 (Issued May 27, 1993), coal-fired boiler No. 1 (Unit 1) at the Wabash Generating Station shall remain permanently inoperable. (This boiler was removed from service on December 31, 1994.)

Compliance Determination Requirements

D.1.11 NSPS Test Methods and Procedures [326 IAC 12][40 CFR 60.335]

- (a) Pursuant to 40 CFR 60.335(a), the Permittee shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the IDEM, OAQ and VCAPC to determine the nitrogen content of the fuel being fired. Pursuant to 40 CFR Part 60.334(h)(2), the Permittee is not required to monitor the nitrogen content of the fuel combusted in the turbine if the Permittee does not claim any allowance for fuel bound nitrogen.
- (b) Pursuant to 40 CFR 60.335(b), the Permittee, in conducting the performance tests required in 40 CFR 60.8, shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided for in 40 CFR 60.8(b). Acceptable alternative methods and procedures are given in paragraph (f) of this Condition.

(c) Pursuant to 40 CFR 60.335(c), the Permittee shall determine compliance with the nitrogen oxides and sulfur dioxide standards in Condition D.1.2 and Condition D.1.4 as follows:

(1) The nitrogen oxides emission rate (NO_x) shall be computed for each run using the following equation:

$$\text{NO}_x = (\text{NO}_{x0})(P_r/P_o)^{0.5} e^{19(H_o-0.00633)}(288K/T_a)1.53$$

where: NO_x = emission rate of NO_x at 15 percent O_2 and ISO standard conditions, volume percent;

NO_{x0} = observed NO_x concentration, ppm by volume;

P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg;

P_o = observed combustor inlet absolute pressure at test, mm Hg;

H_o = observed humidity of ambient air, g H_2O /g air;

e = transcendental constant, 2.718; and

T_a = ambient temperature, $^{\circ}\text{K}$.

(2) Method 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The NO_x emissions shall be determined at each of the load conditions specified in paragraph (c)(2) of this Condition.

(d) Pursuant to 40 CFR 60.335(d), the owner or operator shall determine compliance with the sulfur content standard in Condition D.1.4 as follows: ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels (incorporated by reference - see 40 CFR 60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the IDEM, OAQ and VCAPC. Notwithstanding the provisions of 40 CFR 60.334(h)(3), the Permittee is not required to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in Section 60.331(u), regardless of whether an existing custom schedule approved by IDEM, OAQ and VCAPC for Subpart GG requires such monitoring. The Permittee shall use one of the sources of information described in 40 CFR 60.334(h)(3)(i) and (ii).

(e) Pursuant to 40 CFR 60.335(e), to meet the requirements of Condition D.1.13, the Permittee shall use the methods specified in paragraphs (a) and (d) of this Condition to determine the nitrogen and sulfur contents of the fuel being burned. The analysis may be performed by the Permittee, a service contractor retained by the Permittee, the fuel vendor, or any other qualified agency. Pursuant to 40 CFR 60.334(h)(2) and (3), the Permittee is not required to analyze the fuel nitrogen content when the Permittee claims a zero allowance for fuel bound nitrogen. The Permittee also does not have to analyze the fuel for sulfur content if it qualifies as natural gas.

(f) Pursuant to 40 CFR 60.335(f) the Permittee may use the following alternatives to the reference methods and procedures specified in this condition: Instead of using the equation in paragraph (c)(1) of this Condition, manufacturers may develop ambient condition correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in 40 CFR 60.8 to ISO standard day conditions. These factors are developed for each gas turbine model they manufacturer in terms of combustion inlet pressure, ambient air pressure, ambient air humidity, and ambient air temperature. They shall be substantiated with data and must be approved for use by the IDEM, OAQ and VCAPC before the initial performance test required by 40 CFR 60.8. Notices of approval of custom ambient condition correction factors will be published in the Federal Register.

D.1.12 Nitrogen Oxide Controls

- (a) Pursuant to CP 167-2610-00021 (Issued May 27, 1993) and SSM 167-11328-00021 (issued January 27, 2000), the steam injection shall be used to control nitrogen oxide emissions to the levels required in Condition D.1.2 and D.1.3.
- (b) The steam injection system shall be in service and operating at the appropriate rate, as determined by the continuous emission monitoring system (CEMS) which consists of NO_x and O₂ or CO₂ monitors, whenever the turbine is in operation, except for the time specified for start-up and shutdown period.

D.1.13 NSPS Monitoring of Emissions [326 IAC 12][40 CFR 60.334]

- (a) Pursuant to 40 CFR 60.334(b), the Permittee shall install, certify, maintain, operate, and quality assure a continuous emission monitoring system (CEMS) consisting of NO_x and O₂ or CO₂ monitors. The CEMS shall be installed, certified, maintained and operated as specified in 40 CFR 60.334(b)(1) through (b)(3).
- (b) The Permittee shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The custom schedule for the combustion turbine shall be as follows:
 - (1) Pursuant to 40 CFR Part 60.334(h)(2), the Permittee is not required to monitor the nitrogen content of the fuel combusted in the turbine if the Permittee does not claim any allowance for fuel bound nitrogen.
 - (2) Notwithstanding the provisions of 40 CFR 60.334(h)(3), the Permittee is not required to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in Section 60.331(u), regardless of whether an existing custom schedule approved by IDEM, OAQ and VCAPC for Subpart GG requires such monitoring. The Permittee shall use one of the sources of information described in 40 CFR 60.334(h)(3)(i) and (ii).
- (c) Periods of excess emissions and monitor downtime that shall be reported are defined as follows:
 - (1) Nitrogen oxides.
 - (i) An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NO_x concentration exceeds the applicable emission limit in Sec. 60.332(a)(1) or (2). For the purposes of this subpart, a "4-hour rolling average NO_x concentration" is the arithmetic average of the average NO_x concentration measured by the CEMS for a given hour (corrected to 15 percent O₂ and, if required under Sec. 60.335(b)(1), to ISO standard conditions) and the three unit operating hour average NO_x concentrations immediately preceding that unit operating hour.
 - (ii) A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour, for either NO_x concentration or diluent (or both).
 - (iii) Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the Permittee has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. The Permittee does not have to report ambient conditions if the Permittee opts to use the worst case ISO correction factor as specified in Sec. 60.334(b)(3)(ii), or if the Permittee is not using the ISO correction equation under the provisions of Sec. 60.335(b)(1).
 - (2) Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.
 - (3) Ice fog. Each period during which an exemption provided in Condition D.1.2 is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

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

D.1.14 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.2, D.1.3, and D.1.4 the Permittee shall maintain all records generated in accordance with Conditions D.1.11 and D.1.12.
- (b) To document compliance with Conditions D.1.5 and D.1.6 the Permittee shall maintain records containing the information necessary. The information shall, as a minimum, contain the following information.
 - (1) The date, fuel, and times for all periods of turbine operation;
 - (2) The fuel type and consumption during all periods of the turbine operation;
 - (3) The sulfur content of the fuel, unless the fuel is demonstrated to meet the definition of natural gas in which case it is not required to be monitored; and
 - (4) Records of NOx and SO2 CEM data.
- (c) To document compliance with Section C - Opacity and Condition D.1.7, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and Condition D.1.7.
 - (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 75.14.
 - (3) The results of all visible emission (VE) notations and Method 9 visible emission readings taken during any periods of COM downtime.
- (d) To document compliance with Condition D.1.9, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.15 Reporting Requirements

- (a) The Permittee shall submit the following information on a quarterly basis:
 - (1) Records of excess NOx emissions (defined in 326 IAC 3-5-7 and 40 CFR Part 60.7) from the continuous emissions monitoring system. These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements of this permit.
 - (2) A quarterly excess emissions report shall be submitted, based on any continuous opacity monitor (COM) required by this section, pursuant to 326 IAC 3-5-7. These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements, of this permit.

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

- (b) The Permittee shall submit the following information pursuant to 40 CFR 60.334 and 40 CFR 60.7:

To document compliance with Conditions D.1.2 and D.1.4, pursuant to 40 CFR 60.334, excess emissions and monitoring system performance (MSP) reports shall be submitted to the in accordance with Section C - General Reporting Requirements semi-annually for each six month period in the calendar year. All semi-annual reports shall be postmarked by the 30th day following the end of each six-month period. For the purpose of reports under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:

- (1) For nitrogen oxides: Any unit operating hour in which the 4-hour rolling average NO_x concentration exceeds the applicable emission limit.
- (2) For sulfur dioxide: Any daily period which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

Repowering Auxiliary Boiler fired on natural gas only, identified as Unit 1B, constructed in 1995, with a nominal rated capacity of 144 million BTU per hour, using low NOx burners as NOx control, and exhausting to Stack 1B with continuous emission monitors for NOx and CO₂.

(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 General Provisions Relating to NSPS [326 IAC 12][40 CFR 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated under 326 IAC 12, apply to the boiler (Unit 1B) except when otherwise specified in 40 CFR Part 60, Subpart Db.

D.2.2 New Source Performance Standard (NSPS) [326 IAC 12][40 CFR 60, Subpart Db]

Pursuant to 326 IAC 12 and 40 CFR 60, Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units) and Construction Permit CP 167-2610-00021, issued on May 27, 1993, the nitrogen content of the fuel shall not exceed 0.30 weight percent.

D.2.3 Particulate Matter [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2(b)(3) all gaseous fuel-fired steam generators (Unit 1B) shall not emit a particulate matter content greater than 0.01 grain per dry standard cubic foot.

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

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

D.2.5 Record Keeping Requirements

- (a) To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with 40 CFR 60.49b.
- (b) To document compliance with Condition D.2.4, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

1. Natural gas fired boiler, identified as Unit 1C, constructed in 2001, with a nominal rated capacity of 397.8 million BTU per hour, using low NO_x burners with flue gas recirculation as NO_x control, and exhausting to stack 1C with continuous emission monitors for NO_x, CO₂, and CO.
2. Fuel preheater, identified as Unit 1E, constructed in 2001, with a nominal rated capacity of 7.13 million BTU per hour, utilizing natural gas for fuel, using a low emission rate burner for NO_x control, and exhausting to stack 1E.

(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 General Provisions Relating to NSPS [326 IAC 12][40 CFR 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated under 326 IAC 12, apply to the boiler (Unit 1C) except when otherwise specified in 40 CFR Part 60, Subpart Da.

D.3.2 New Source Performance Standard (NSPS) [326 IAC 12] [40 CFR 60, Subpart Da]

Pursuant to 326 IAC 12 and 40 CFR 60, Subpart Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978), emissions from Unit 1C shall not exceed the following:

- (a) for particulate matter:
 - (1) Three-hundredths (0.03) pound PM per million Btu (MMBtu) heat input when combusting gaseous fuel. [40 CFR 60.42a(a)(1)]
 - (2) Twenty percent (20%) opacity (six-minute average), except for one six-minute period per hour of not more than twenty-seven percent (27%) opacity. [40 CFR 60.42a(b)]
- (b) for sulfur dioxide: (While combusting liquid or gaseous fuels:)
 - (1) Eight-tenths (0.80) pound SO₂ per million Btu (MMBtu) heat input and ninety percent (90%) reduction, or
 - (2) Less than two-tenths (0.20) pound SO₂ per million Btu (MMBtu) heat input and zero percent (0%) reduction (while combusting gaseous fuels). [40 CFR 60.43a(b)(1) and (2)]
- (c) for nitrogen oxides:
 - (1) Two-tenths (0.20) pound NO_x per million Btu (MMBtu) heat input and twenty-five (25%) reduction while combusting gaseous fuels. [40 CFR 60.44a(a)(1) and (2)]

D.3.3 CO Emission Limitations [326 IAC 2-2]

Pursuant to SSM 167-11328-00021 issued on January 27, 2000, the combined emissions of CO from the boiler (Unit 1C) and the fuel preheater (Unit 1E) shall be less than one hundred (100) tons per 12 consecutive month period with compliance demonstrated at the end of each month. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.3.4 Particulate Matter [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2(b)(3) the gaseous fuel-fired steam generators (Unit 1E) must not emit a particulate matter content greater than 0.01 grain per dry standard cubic foot.

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 these facilities and any emission control devices.

Compliance Determination Requirements

D.3.6 NSPS Compliance Provisions [326 IAC 12][40 CFR 60, Subpart Da]

- (a) Compliance with the pound per million Btu (MMBtu) PM emission limitation in Condition D.3.2 constitutes compliance with the percent reduction requirements for PM in Condition D.3.2. [40 CFR 60.46a(a)]
- (b) Compliance with the pound per million Btu (MMBtu) NO_x emission limitations in Condition D.3.2 constitutes compliance with the percent reduction requirements for NO_x in Condition D.3.2. [40 CFR 60.46a(b)]
- (c) The PM and NO_x emission limitations in Condition D.3.2 apply at all times except during periods of startup, shutdown, or malfunction. [40 CFR 60.46a(c)]
- (d) The SO₂ emission limitations in Condition D.3.2 apply at all times except during periods of startup, shutdown, or when emergency conditions exist and the procedures under 40 CFR 40.46a(d) are implemented. [40 CFR 60.46a(c)]
- (e) Compliance with the SO₂ and NO_x emission limitations and SO₂ percent reductions requirements in Condition D.3.2 shall be based on a thirty (30) day rolling average. Compliance is determined by calculating the arithmetic average of all hourly emission rates for SO₂ and NO_x for the 30 successive boiler operating days, except for data obtained during startup, shutdown, malfunction (NO_x only), or emergency conditions (SO₂ only).
- (f) Compliance with the visible emission limitation in Condition D.3.2 shall be determined by 40 CFR 60, Appendix A, Method 9 and 40 CFR 60.11.
- (g) If the Permittee has not obtained the minimum quantity of emission data (specified under 40 CFR 60.47a), compliance may be determined by following the procedures in section 7 of 40 CFR 60, Appendix A, Method 19.

D.3.7 NSPS Compliance Determination Procedures and Methods [326 IAC 12][40 CFR 60.48a]

Pursuant to 40 CFR 60.48a, the Permittee shall use methods and procedures in Appendix A of 40 CFR 60 in order to properly conduct the performance tests required under 40 CFR 60.8. (Section 60.8(f) does not apply for SO₂ and NO_x in this case). The procedures, along with acceptable alternative methods are as follows:

- (a) The Permittee shall determine compliance with the particulate matter standards under Condition D.3.2 and the opacity standards under Condition D.3.2 as follows:
 - (1) The dry basis F factor (O₂) procedures in Method 19 shall be used to compute the emission rate of particulate matter.
 - (2) For the particulate matter concentration, Method 5 shall be used at affected facilities without wet FGD systems and Method 5B shall be used after wet FGD systems.
 - (i) The sampling time and sample volume for each run shall be at least 120 minutes and 1.70 dscm (60 dscf). The probe and filter holder heating system in the sampling train may be set to provide an average gas temperature of no greater than 160° 14 EC (320° 25 EF).
 - (ii) For each particulate run, the emission rate correction factor, integrated or grab sampling and analysis procedures of Method 3B shall be used to determine the

O₂ concentration. The O₂ sample shall be obtained simultaneously with, and at the same traverse points as, the particulate run. If the particulate run has more than 12 traverse points, the O₂ traverse points may be reduced to 12 provided that Method 1 is used to locate the 12 O₂ traverse points. If the grab sampling procedure is used, the O₂ concentration for the run shall be the arithmetic mean of all the individual O₂ concentrations at each traverse point.

- (3) Method 9 and the procedures in § 60.11 shall be used to determine opacity.
- (b) The Permittee shall determine compliance with the sulfur dioxide standard in Condition D.3.2 as follows:
 - (1) The appropriate procedures from Method 19 shall be used to determine the emission rate.
- (c) The Permittee shall determine compliance with the nitrogen oxides standard in Condition D.3.2 as follows:
 - (1) The appropriate procedures in Method 19 shall be used to determine the emission rate of NO_x.
 - (2) The continuous monitoring system in § 60.47a (c) and (d) shall be used to determine the concentrations of NO_x and CO₂ or O₂.
- (d) The Permittee may use the following alternative methods and procedures, as applicable:
 - (1) For Method 5 or 5B, Method 17 may be used at facilities with or without wet FGD systems if the stack temperature at the sampling location does not exceed an average temperature of 160 EC (320 EF). The procedures of §§ 2.1 and 2.3 of Method 5B may be used in Method 17 only if it is used after wet FGD systems. Method 17 shall not be used after wet FGD systems if the effluent is saturated or laden with water droplets.
 - (2) The Fc factor (CO₂) procedures in Method 19 may be used to compute the emission rate of particulate matter under the stipulations of § 60.46(d)(1). The CO₂ shall be determined in the same manner as the O₂ concentration.

D.3.8 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 12] [40 CFR 60, Subpart Da]

Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) and CFR 60, Subpart Da, continuous emission monitoring systems for Unit 1C shall be calibrated, maintained, and operated for measuring NO_x, O₂ or CO₂ and CO, which meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 60.47a.

D.3.9 NSPS Emission Monitoring [326 IAC 12][40 CFR 60.47a]

- (a) Pursuant to 40 CFR 60.47a(c), the Permittee shall calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxide emissions discharged to the atmosphere. The output of this monitoring system shall be recorded.
- (b) Pursuant to 40 CFR 60.47a(d), the Permittee shall, at the location where the nitrogen oxide monitor is, calibrate, maintain, and operate a continuous oxygen or carbon dioxide continuous monitoring system. The output of this monitoring system shall be recorded.
- (c) Pursuant to 40 CFR 60.47a(e), the monitoring systems specified above shall be operated (and data recorded) at all times, including periods of startup, shutdown, malfunction, or emergency conditions, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments.
- (d) Pursuant to 40 CFR 60.47a(f), the Permittee shall obtain emission data for at least 18 hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirements is not met with a continuous emission monitoring system, the Permittee shall supplement emission data with other monitoring systems approved by IDEM, OAQ and VCAPC or the reference methods below.
 - (1) Pursuant to 40 CFR 60.47a(h), when it become necessary to supplement continuous monitoring system data to meet the minimum data requirements, the Permittee shall use the following reference methods:

- (A) Method 7 shall be used to determine the NO_x concentration at the same location as the NO_x monitor. Samples shall be taken at 30-minute intervals. The arithmetic average of two consecutive samples represents a 1-hour average.
 - (B) The emission rate correction factor, integrated bag sampling and analysis procedure of Method 3B shall be used to determine the O₂ or CO₂ concentration at the same location as the O₂ or CO₂ monitor. Samples shall be taken for at least 30 minutes in each hour. Each sample represents a 1-hour average.
 - (C) The procedure in Method 19 shall be used to compute each 1-hour average concentration in ng/J (lb/million BTU) heat input.
- (2) Pursuant to 40 CFR 60.47a(j), the following alternatives to the reference methods and procedures may be used:
- (A) For Method 7, Method 7A, 7C, 7D, or 7E may be used. If Method 7C, 7D, or 7E is used, the sampling time for each run shall be 1-hour.
 - (B) For Method 3, Method 3A or 3B may be used if the sampling time is 1 hour.
 - (C) For Method 3B, Method 3A may be used.
- (e) Pursuant to 40 CFR 60.47a(g), the 1-hour averages are used to calculate average emission rates under the Compliance Provisions section above. The 1-hour averages are calculated using the data points required under 40 CFR 60.13(b). At least two data points must be used to calculate the 1-hour averages.
- (f) Pursuant to 40 CFR 60.47a(i) the Permittee shall use the following methods and procedures to conduct monitoring system performance evaluations under 40 CFR 60.13(c) and calibration checks under 40 CFR 60.13(d). Acceptable alternative methods and procedures are given in paragraph (d)(2) of this Condition.
- (1) Methods 6, 7, and 3B, as applicable, shall be used to determine O₂, SO₂, and NO_x concentrations.
 - (2) SO₂ or NO_x (NO), as applicable, shall be used for preparing the calibration gas mixtures (in N₂, as applicable) under Performance Specification 2 of Appendix B of this part.
 - (3) The span value for a continuous monitoring system measuring nitrogen oxides is 500 ppm.

D.3.10 Continuous Emission Monitoring System (CEMS) [326 IAC 3-5]

- (a) Pursuant to 326 IAC 3-5-1(d)(1), the Permittee with an emission limitation or permit requirement established under 326 IAC 2-1-3(i)(8) shall be required to calibrate, certify, operate and maintain a continuous monitoring system for measuring emissions rates (for CO in this case) in pounds per hour from stack 1C in accordance with 326 IAC 3-5-2 and 326 IAC 3-5-3.
- (b) The emissions from the fuel preheater (Unit 1E) shall be estimated by utilizing the potential emissions (determined using the manufacturer's maximum emission rate)
- (c) The Permittee shall submit to IDEM, OAQ and VCAPC, within ninety (90) days after monitor installation, a complete written continuous monitoring standard operating procedure (SOP), in accordance with the requirements of 326 IAC 3-5-4. This SOP was submitted on April 16, 2001.
- (d) The Permittee shall record the output of the system and shall perform the required record keeping, pursuant to 326 IAC 3-5-6, and reporting, pursuant to 326 IAC 3-5-7.
- (e) In instances of downtime, the Permittee shall use the manufacturer's specification of maximum emission rate to demonstrate compliance with the limits established in Condition D.3.3 if the emission unit (1C) is in operation at the time.
- (f) After twelve (12) consecutive months of operation, the Permittee may submit to IDEM, OAQ and VCAPC alternative emission factors and their corresponding operating parameters to use in lieu of the manufacturer's emission rates in instances of downtime. The alternative emissions factors must be approved by IDEM, OAQ and VCAPC prior to use in calculating emissions for the limitations established in this permit. The alternative emission factors shall be based upon

collected monitoring and/or approved performance tests. In the event that the information submitted does not contain sufficient data to establish appropriate emission factors, the Permittee shall continue to collect data until appropriate emission factors can be established. During this period of time, the Permittee shall continue to use the manufacturer's maximum emission rates in periods of downtime.

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

D.3.11 Record Keeping Requirements

- (a) To document compliance with Condition D.3.3 and D.3.10, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the limits established in Condition D.3.3 and D.3.10.
 - (1) All continuous CO monitoring data, pursuant to 326 IAC 3-5.
 - (2) Records of the type and amount of fuel used in each unit (Unit 1C and Unit 1E).
 - (3) Measured and calculated emission summaries.
- (b) To document compliance with Conditions D.3.2, D.3.6, and D.3.7, the Permittee shall maintain records to comply with the NSPS Reporting Requirements outlined in Condition D.3.12 of this section. Records shall be complete and sufficient to establish compliance with the limit established in Condition D.3.2, D.3.6, and D.3.7.
- (c) To document compliance with Condition D.3.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.12 NSPS Reporting Requirements [326 IAC 12][40 CFR 60.49a]

Pursuant to 40 CFR 60.49a, the Permittee shall report the following quarterly:

- (a) For sulfur dioxide and nitrogen oxides the following information is reported to the IDEM, OAQ and VCAPC for each 24-hour period.
 - (1) Calendar Date;
 - (2) The average sulfur dioxide and nitrogen oxide emission rates (ng/J or lb/million BTU) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken;
 - (3) Identification of the boiler operating days for which pollutant or diluent data have not been obtained for at least 18 hours of operation of the facility; justification for not obtaining sufficient data; and description of corrective actions taken;
 - (4) Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NO_x only), emergency conditions (SO₂ only), or other reasons, and justification for excluding data for reasons other than startup, shutdown, malfunction, or emergency conditions;
 - (5) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - (6) Identification of times when hourly averages have been obtained based on manual sampling methods;
 - (7) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system; and
 - (8) Description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3.

- (b) If the minimum quantity of emission data as required by Condition D.3.9(d) is not obtained for any 30 successive boiler operating days, the following information obtained under the requirements of D.3.9(e) is reported to the IDEM, OAQ and VCAPC for that 30-day period:
- (1) The number of hourly averages available for outlet emission rates (n_o);
 - (2) The standard deviation of hourly averages for outlet emission rates (s_o);
 - (3) The applicable potential combustion concentration; and
 - (4) The ratio of the upper confidence limit for the mean outlet emission rate (E_o^*) and the allowable emission rate (E_{std}) as applicable.
- (c) For any periods for which nitrogen oxides emissions data is not available, the owner or operator of the affected facility shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.
- (d) The Permittee shall submit a signed statement indicating whether:
- (1) The required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified.
 - (2) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.
 - (3) The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.
 - (4) Compliance with the standards has or has not been achieved during the reporting period.
- (e) The Permittee shall submit the written reports required under this section and 40 CFR 60, subpart A to the IDEM, OAQ and VCAPC for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

D.3.13 Reporting Requirements

- (a) The Permittee shall submit a quarterly excess emissions report, if applicable, based on the continuous emissions monitor (CEM) data for CO, pursuant to 326 IAC 3-5-7. These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements of this permit. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) A quarterly summary of the information to document compliance with the emission limitation in Condition D.3.3 shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting. This report shall include the following information: monthly CO emissions from Unit 1C (tons); monthly CO emissions from Unit 1E (tons); combined monthly CO emissions from the two (2) Units (Unit 1C and 1E) (tons); total prior eleven (11) consecutive months CO emissions (tons) from the two (2) Units combined; and the total twelve (12) consecutive month CO emissions (tons) from the two (2) Units combined. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.4 FACILITY OPERATION CONDITIONS

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

1. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 2, constructed in 1953, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 913.8 million BTU per hour, using modified burner design (low NOx) for NOx control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NOx, CO₂, SO₂, and volumetric flow rate.
2. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 3, constructed in 1954, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NOx) for NOx control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NOx, CO₂, SO₂, and volumetric flow rate.
3. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 4, constructed in 1955, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NOx) for NOx control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NOx, CO₂, SO₂, and volumetric flow rate.
4. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 5, constructed in 1956, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 1096.2 million BTU per hour, using modified burner design (low NOx) for NOx control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NOx, CO₂, SO₂, and volumetric flow rate.
5. Tangential fired coal electric utility boiler (pulverized - dry bottom, tangential), identified as Unit 6, constructed in 1968, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 2999.0 million BTU per hour, using modified burner design (low NOx) for NOx control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NOx, CO₂, SO₂, and volumetric flow rate.

(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 Particulate Matter (PM) [326 IAC 6-1-13]

Pursuant to 326 IAC 6-1-13 (Particulate limits - Vigo County) the particulate emissions from boilers (Units 2, 3, 4, 5, and 6) shall not exceed 0.1338 pounds of particulate matter per million BTU.

D.4.2 Sulfur Dioxide (SO₂) [326 IAC 7-4-3]

Pursuant to 326 IAC 7-4-3 (Vigo County Sulfur Dioxide emission limitations) the sulfur dioxide emissions from boilers (Units 2, 3, 4, 5, and 6) shall not exceed 4.04 pounds of sulfur dioxide per MM BTU.

D.4.3 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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

- (1) During boiler startups, an exemption from the forty percent (40%) opacity limit is allowed for up to two (2) hours (twenty (20) six (6) minute averaging periods) or until the flue gas temperature reaches two hundred forty (240) degrees Fahrenheit, whichever occurs first. In addition, an exemption of up to five (5) hours (fifty (50) six (6) minute averaged periods) is allowed for one (1) unit startup each calendar year.
 - (2) During boiler shutdowns, an exemption from the forty percent (40%) opacity limit is allowed for up to two (2) hours (twenty (20) six (6) minute averaged periods).
 - (3) Operation of the electrostatic precipitator is not required during these times.
- (b) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]
 - (c) If a facility cannot meet the opacity limitations in (b) of this condition, the Permittee may submit a written request to IDEM, OAQ and VCAPC, for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

D.4.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [40 CFR 279] [329 IAC 13]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in these facilities (Units 2, 3, 4, 5, and 6). Any boiler or condenser tube chemical cleaning waste liquids evaporated in the boiler, and any, binding agent or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.
- (c) Any boiler or condenser tube chemical cleaning waste liquids evaporated in the boiler shall only contain the cleaning solution and two full volume boiler or condenser rinses.

D.4.5 Hourly Particulate Matter and SO₂ Emission Limitations [326 IAC 7-4-3][326 IAC 6-1-13]

In accordance with the modeling analysis required for the approval of 326 IAC 7-4-3 and 326 IAC 6-1-13, as well as 40 CFR 52.770(c)(66)(i)(A), the hourly particulate matter and sulfur dioxide emissions shall not exceed the following:

- (a) The combined particulate matter emissions from Units 2, 3, 4, 5, and 6 shall not exceed a total of 848.4 pounds per hour (lbs/hr), with compliance demonstrated using a 3-hour average.
- (b) The combined sulfur dioxide (SO₂) emissions from Units 2, 3, 4, 5, and 6 shall not exceed a total of 25,618 pounds per hour (lbs/hr), with compliance demonstrated using a three hour block average (three hour block periods ending at 03:00, 06:00, 09:00, 12:00, 15:00, 18:00, 21:00, and 24:00).

D.4.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

- (a) A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their emission control devices.
- (b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:
 - (1) Plate and electrode alignment, every major maintenance outage, but no less than every two (2) years;

- (2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three (3) days, unless such inspections have been performed within the last six (6) months. At a minimum the following inspections shall be performed:
 - (A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).
 - (B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).
 - (C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).
 - (D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).
 - (E) Major misalignment of plates (including but not limited to a visual check of plate alignment).
 - (F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).
 - (G) Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).
 - (H) Vibrator and rapper seals (including but not limited to air in-leakage, wear, and deterioration).
 - (I) TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).
 - (J) Vibrator air pressure settings.
- (3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.
- (4) Flue gas conditioning system (FGCS) components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months.

Compliance Determination Requirements

D.4.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) Within the two (2) calendar years following the most recent stack test, compliance with the PM limitation in Condition D.4.1 for each Unit (Units 2, 3, 4, 5, and 6) shall be determined by a performance stack test conducted utilizing methods as approved by the Commissioner. This test shall be repeated at least once every two (2) calendar years following this valid compliance demonstration. Tests may be conducted individually in the unit duct work, or in Stack A in any combination of units, so long as all units are included in at least one test every two (2) calendar years. Testing shall be conducted in accordance with Section C- Performance Testing.
- (b) The most recent test from (a) above shall be used to establish a correlation between heat input and pounds of particulate matter emission per million BTU of heat input (for each individual unit) to determine compliance with the hourly particulate limitation in Condition D.4.5.

D.4.8 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitators (ESPs) shall be in operation at all times that the boilers vented to the ESPs are in operation and combusting coal, except during periods of startup, shutdown, or emergency as described in Condition D.4.3 and Section B - Emergency Provisions.

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

Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), continuous emission monitoring systems for the combined Unit 2, Unit 3, Unit 4, Unit 5, and Unit 6 stack (Stack A) shall be calibrated, maintained,

and operated for measuring opacity, which meet the performance specifications of 326 IAC 3-5-2. Continuous monitoring of opacity is not required during periods in which the boilers are not operating and combusting fuel.

D.4.10 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-2] [326 IAC 7-4-3]

- (a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the equivalent of 4.04 pounds per million BTU 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 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 3-7-3 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 shall not apply. [326 IAC 7-2-1(g)]

D.4.11 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

The Permittee shall use appropriate methodology as identified in 40 CFR Part 261 to characterize all boiler or condenser chemical cleaning wastes that will be evaporated, to determine compliance with the Operation Standards condition in this D section.

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

D.4.12 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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

D.4.13 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) In the event of opacity exceeding thirty percent (30%) average opacity for three (3) consecutive six (6) minute averaging periods, appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below thirty percent. 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 thirty percent (30%) 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

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

D.4.14 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Conditions D.4.1, D.4.3, and D.4.5, 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 and D.4.3.
- (1) Data and results from the most recent stack test;
 - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5;
 - (3) The results of all visible emission (VE) notations and Method 9 visible emission readings taken during any periods of COM downtime; and
 - (4) All ESP parametric monitoring readings.
- (b) To document compliance with Conditions D.4.2 and D.4.5, the Permittee shall maintain records in accordance with (1) through (2) below during coal combustion. Records maintained for (1) through (2) shall be sufficient to demonstrate compliance using a thirty (30) day rolling weighted average and shall be complete and sufficient to establish compliance with the SO₂ limit established in Condition D.4.2.
- (1) All fuel sampling and analysis data, pursuant to 326 IAC 7-2; and
 - (2) Actual fuel usage since last compliance period.
- (c) To document compliance with Condition D.4.5, the Permittee shall maintain records of the 3-hour block average SO₂ and 3-hour average Particulate Matter emissions from Stack A (Units 2, 3, 4, 5, and 6 combined). The particulate matter emission rate shall be developed using actual heat input rate for each unit in conjunction with the respective correlation between heat input and pounds of particulate matter emissions per million BTU heat input from the latest stack test. The SO₂ rate shall be developed using the current coal sulfur analysis and the heat input rates.
- (d) To document compliance with Condition D.4.6, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) To document compliance with Condition D.4.12, the Permittee shall maintain records of boiler operation, and the operational status of each T-R set.
- (f) To document compliance with the provisions of 40 CFR 75, the Permittee shall maintain records of all SO₂ and NO_x CEM data.
- (g) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ and VCAPC.
- (h) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.15 Reporting Requirements

- (a) A quarterly summary of opacity exceedances shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the

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

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

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

- (c) A quarterly summary of hourly SO₂ or Particulate Matter exceedances shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) 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 reports separately, shall include the following:
 - (1) Date of downtime
 - (2) Time of commencement.
 - (3) Duration of each downtime.
 - (4) Reasons for each downtime.
 - (5) Nature of system repairs and adjustments.

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

SECTION D.5 FACILITY OPERATION CONDITIONS

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

1. Coal pile maintenance, identified as F-1.
2. Coal handling, identified as F-2.
3. Coal pile wind erosion [326 IAC 6-1-2][326 IAC 6-4]
4. Lime silo: 1388 cubic feet [326 IAC 6-1-2]
5. Lime day bin: 87 cubic feet [326 IAC 6-1-2]
6. Unit 6 hydroveyor [326 IAC 6-1-2]
7. Ash hydroveyor separator Units 1&2 [326 IAC 6-1-2]
8. Ash hydroveyor separator Units 3&4 [326 IAC 6-1-2]
9. Ash hydroveyor separator Unit 5 [326 IAC 6-1-2]
10. Ash pond: 216 acres [326 IAC 6-1-2][326 IAC 6-4]
11. Ash pond management and maintenance [326 IAC 6-1-2]

(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 Particulate Matter (PM) Emissions [326 IAC 6-1-2(a)]

Pursuant to 326 IAC 6-1-2(a), each of these emission units shall not emit greater than 0.03 grain per dry standard cubic foot.

D.5.2 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 these facilities and their emission control devices.

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

D.5.3 Visible Emissions Notations [326 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Visible emission notations of any coal handling unloading and transfer points shall be performed once per shift during normal daylight operations when handling coal. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations of any ash handling exhaust point shall be performed once per shift during normal daylight operations when handling ash. A trained employee shall record whether emissions are normal or abnormal.
- (c) Visible emission notations of the ash storage pond shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

- (d) 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (e) If abnormal emissions are observed at an unloading or transfer point, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (f) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (g) 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.
- (h) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

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

D.5.4 Record Keeping Requirements

- (a) To document compliance with Section C - Opacity and Condition D.5.3, the Permittee shall maintain records of the visible emission notations and all response steps taken and the outcome for each.
- (b) To document compliance with Condition D.5.2, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.6 FACILITY OPERATION CONDITIONS

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

1. Diesel Generator, identified as 7A, constructed in 1967, combusting #2 fuel oil, with a nominal rated capacity of 28.6 million BTU per hour, used for intermittent and emergency duty, using no control, and exhausting to stack 7A.
2. Diesel Generator, identified as 7B, constructed in 1967, combusting #2 fuel oil, with a nominal rated capacity of 28.6 million BTU per hour, used for intermittent and emergency duty, using no control, and exhausting to stack 7B.
3. Diesel Generator, identified as 7C, constructed in 1967, combusting #2 fuel oil, with a nominal rated capacity of 28.6 million BTU per hour, used for intermittent and emergency duty, using no control, and exhausting to stack 7C.

(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 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO₂ emissions from Units 7A, 7B, and 7C shall not exceed 0.5 pounds per million BTU.

D.6.2 Particulate Matter Emission Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2(a), particulate matter emissions from the diesel fired generators (7A, 7B, and 7C) shall not exceed 0.03 grain per dry standard cubic foot.

D.6.3 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 these facilities.

Compliance Determination Requirements

D.6.4 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-1.1-2][326 IAC 7-2]

Pursuant to 326 IAC 3-7-4, 326 IAC 7-1.1-2, and 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed 0.5 pounds per million BTU, demonstrated on a calendar month average, by:

- (a) Providing vendor analysis of fuel delivered, accompanied by a vendor certification; or
- (b) Providing analysis of fuel oil samples collected and analyzed using the ASTM methods cited in 326 IAC 3-7-4(a).
 - (1) Oil samples shall be collected from the tanker truck load prior to transferring fuel to the storage tank; or
 - (2) Oil samples shall be collected from the storage tank immediately after each addition of fuel to the tank.

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

D.6.5 Visible Emissions Notations

- (a) Visible emission (VE) notations of the generators' stack exhausts shall be performed once per shift during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed at any generators' exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (c) "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.
- (d) A trained employee is an employee who has worked at the plant at least (1) month and has been trained in the appearance and characteristics of normal visible emissions for the generators.

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

D.6.6 Record Keeping Requirements

- (a) To document compliance with Conditions D.6.1 and D.6.4, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained shall be complete and sufficient to establish compliance with the SO₂ limit as required in Conditions D.6.1 and D.6.4.
 - (1) Calendar dates covered in the compliance period.
 - (2) Monthly weighted average sulfur content.
 - (3) Fuel heat content.
 - (4) Fuel consumption.
 - (5) Monthly weighted average sulfur dioxide emission rate in pounds per million BTU.
- (b) To document compliance with Condition D.6.5, the Permittee shall maintain records of visible emission notations of the generators' stack exhausts.
- (c) To document compliance with Condition D.6.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.6.7 Reporting Requirements

A summary of the information to document compliance with Condition D.6.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements upon request.

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

SECTION D.7 FACILITY OPERATION CONDITIONS

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

1. Thaw pit fuel oil tank: 20,000 gallon (constructed 1990)[326 IAC 12][40 CFR 60, Subpart Kb]
2. Degreaser (maintenance shop): 30 gallon (constructed about 1980) [326 IAC 8-3]
3. Parts cleaner (electric shop): 30 gallon (constructed about 1980) [326 IAC 8-3]
4. Parts cleaner (main floor storage area): 30 gallon (constructed about 1980) [326 IAC 8-3]
5. Two (2) Repowering fuel oil storage tank: 99,500 gallon each (constructed in 1993) [326 IAC 12][40 CFR 60, Subpart Kb]
6. Fuel oil tank: 50,000 gallons (constructed in 1986) [326 IAC 12][40 CFR 60, Subpart Kb]

(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 General Provisions Relating to NSPS [326 IAC 12][60 CFR 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated under 326 IAC 12, apply to the fuel oil storage tanks (Thaw pit, two (2) Repowering, and Fuel oil tank) except when otherwise specified in 40 CFR Part 60, Subpart Kb.

D.7.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980 (Maintenance shop, electric shop, and main floor storage area), the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

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

D.7.3 NSPS Recordkeeping Requirements [40 CFR 60, Subpart Kb]

All records of each storage vessel (Thaw pit, two (2) Repowering, and Fuel oil tank), as specified in 60.110b(a), shall be kept and made readily accessible for the life of the source. The records shall include the dimension and an analysis showing the capacity of the storage vessel.

SECTION E

TITLE IV CONDITIONS

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

1. Combustion Turbine, identified as Unit 1A, constructed in 1995, with a nominal rated capacity of 1709.1 million BTU per hour (192 megawatt), utilizing syngas or natural gas in combined cycle mode and natural gas in simple cycle mode, utilizing steam injection for NO_x control, and exhausting to stack 1A (combined cycle mode) or 1D (simple cycle mode). Stack 1A (combined cycle) has continuous emission monitors for SO₂, NO_x, CO₂, and volumetric flow rate as well as a continuous opacity monitor (COM). Stack 1D (bypass) has continuous emission monitors for NO_x and CO₂.
2. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 2, constructed in 1953, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 913.8 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
3. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 3, constructed in 1954, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
4. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 4, constructed in 1955, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
5. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 5, constructed in 1956, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 1096.2 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
6. Tangential fired coal electric utility boiler (pulverized - dry bottom, tangential), identified as Unit 6, constructed in 1968, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 2999.0 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.

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

Acid Rain Program

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

Pursuant to 326 IAC 21 (Acid Deposition Control), the Permittee shall comply with all provisions of the Acid Rain permit issued for this source, and any other applicable requirements contained in 40 CFR 72

through 40 CFR 78. The Acid Rain permit for this source is attached to this permit as Appendix A, and is incorporated by reference.

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

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

- (a) No revision of this permit shall be required for increases in emissions that are authorized by allowances acquired under the Title IV Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.
- (b) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not use allowances as a defense to noncompliance with any other applicable requirement.
- (c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.

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

ORIS Code: 1010

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

1. Combustion Turbine, identified as Unit 1A, constructed in 1995, with a nominal rated capacity of 1709.1 million BTU per hour (192 megawatt), utilizing syngas or natural gas in combined cycle mode and natural gas in simple cycle mode, utilizing steam injection for NO_x control, and exhausting to stack 1A (combined cycle mode) or 1D (simple cycle mode). Stack 1A (combined cycle) has continuous emission monitors for SO₂, NO_x, CO₂, and volumetric flow rate as well as a continuous opacity monitor (COM). Stack 1D (bypass) has continuous emission monitors for NO_x and CO₂.
2. Natural gas fired boiler, identified as Unit 1C, constructed in 2001, with a nominal rated capacity of 397.8 million BTU per hour, using low NO_x burners with flue gas recirculation as NO_x control, and exhausting to stack 1C with continuous emission monitors for NO_x, CO₂, and CO.
3. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 2, constructed in 1953, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 913.8 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
4. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 3, constructed in 1954, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
5. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 4, constructed in 1955, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 922.9 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
6. Wall fired coal electric utility boiler (pulverized - dry bottom), identified as Unit 5, constructed in 1956, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 1096.2 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.
7. Tangential fired coal electric utility boiler (pulverized - dry bottom, tangential), identified as Unit 6, constructed in 1968, using #2 fuel oil as ignition fuel, with a nominal rated heat input capacity of 2999.0 million BTU per hour, using modified burner design (low NO_x) for NO_x control and electrostatic precipitator (ESP) for particulate control, exhausting to Stack A. Stack A is equipped with a continuous opacity monitor (COM) to monitor opacity as well as continuous emission monitors for NO_x, CO₂, SO₂, and volumetric flow rate.

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

F.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.

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

- (a) The owners and operators of the NO_x budget source and each NO_x budget unit 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 Unit 1A, Unit 1C, Unit 2, Unit 3, Unit 4, Unit 5, and Unit 6.

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

- (a) The owners and operators and, to the extent applicable, the NO_x authorized account representative of the NO_x budget source and each NO_x budget unit at the source 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 F.4, Nitrogen Oxides Requirements.

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

- (a) The owners and operators of the NO_x budget source and each NO_x budget unit at the source 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 unit's compliance account and the source's overdraft account in an amount:
 - (1) Not less than the total NO_x emissions for the ozone control period from the unit, 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) Each NO_x budget unit shall be subject to the requirements under (a) above and 326 IAC 10-4-4(c)(1) starting on May 31, 2004.
- (d) 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.
- (e) 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.
- (f) 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, the NO_x budget 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.

- (g) A NO_x allowance allocated under the NO_x budget trading program does not constitute a property right.
- (h) 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 NO_x budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, this NO_x budget permit of the NO_x budget unit by operation of law without any further review.

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

The owners and operators of each NO_x budget unit 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).

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

Unless otherwise provided, the owners and operators of the NO_x budget source and each NO_x budget unit at the source shall keep, either 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:

- (a) The account certificate of representation for the NO_x authorized account representative for the source and each NO_x budget unit at the source 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, Vigo County Air Pollution Control (VCAPC) 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, VCAPC, 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.

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

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

- (b) Pursuant to 326 IAC 10-4-4(e) and 326 IAC 10-4-6(e)(1), each submission shall include the following certification statement by the NO_x authorized account representative: "I am authorized to make this submission on behalf of the owners and operators of the NO_x budget sources or NO_x budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (c) Where 326 IAC 10-4 requires a submission to IDEM, OAQ, the NO_x authorized account representative shall submit required information to:

Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
103 South 3rd Street
Terre Haute, Indiana 47807

- (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

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

The owners and operators of each NO_x budget source 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) Each NO_x budget source and each NO_x budget unit 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 a NO_x budget unit, including a provision applicable to the NO_x authorized account representative of a NO_x budget unit, shall also apply to the owners and operators of the unit. 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.

F.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, a NO_x budget permit, or an exemption under 326 IAC 10-4-3 shall be construed as exempting or excluding the owners and operators and, to the extent applicable, the NO_x authorized account representative of a NO_x budget source or NO_x budget unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the CAA.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
VIGO COUNTY AIR POLLUTION CONTROL**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: PSI Energy Inc. - Wabash River Generating Station
Source Address: 450 Bolton Road, West Terre Haute, Indiana 47885
Source Name: PSI Energy Inc. - Wabash River Repowering
Source Address: 445 Bolton Road, West Terre Haute, Indiana 47885
Mailing Address: c/o Steven L. Pearl, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: 167-7176-00021

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Telephone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH**

**100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

and

VIGO COUNTY AIR POLLUTION CONTROL

**103 South 3rd Street
Terre Haute, Indiana 47807
Phone: 812-462-3433
Fax: 812-462-3447**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: PSI Energy Inc. - Wabash River Generating Station
Source Address: 450 Bolton Road, West Terre Haute, Indiana 47885
Source Name: PSI Energy Inc. - Wabash River Repowering
Source Address: 445 Bolton Road, West Terre Haute, Indiana 47885
Mailing Address: c/o Steven L. Pearl, 1000 East Main Street, Plainfield, Indiana 46168
Part 70 Permit No.: 167-7176-00021

This form consists of 2 pages

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<p>9 This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">C The Permittee must notify the Office of Air Quality (OAQ) and Vigo County Air Pollution Control (VCAPC), within four (4) daytime business hours (OAQ: 1-800-451-6027 or 317-233-5674, ask for Compliance Section and VCAPC: 812-462-3433); andC The Permittee must submit notice in writing or by facsimile within two (2) working days (IDEM Facsimile Number: 317-233-5967 and VCAPC Facsimile Number: 812-462-3447), 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 Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:

Title / Position:

Date:

Telephone:

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 and
 VIGO COUNTY AIR POLLUTION CONTROL**

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

Source Name: PSI Energy Inc. - Wabash River Generating Station
 Source Address: 450 Bolton Road, West Terre Haute, Indiana 47885
 Source Name: PSI Energy Inc. - Wabash River Repowering
 Source Address: 445 Bolton Road, West Terre Haute, Indiana 47885
 Mailing Address: c/o Steven L. Pearl, 1000 East Main Street, Plainfield, Indiana 46168
 Part 70 Permit No.: 167-7176-00021

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

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

Telephone:

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Quality
And
Vigo County Air Pollution Control**

Technical Support Document (TSD) for a Significant Permit Modification

Source Background and Description

Source Name:	PSI Energy, Inc. – Wabash River Generating Station
Source Location:	450 Bolton Road, West Terre Haute, Indiana 47885
County:	Vigo
SIC Code:	4911
Operation Permit No.:	T167-7176-00021
Operation Permit Issuance Date:	September 2, 2004
Permit Modification No.:	167-19843-00021
Permit Reviewer:	Rob Harmon

The Office of Air Quality (OAQ) and Vigo County Air Pollution Control have reviewed a modification application from PSI Energy, Inc. – Wabash River Generating Station, relating to the operation of a stationary electric power generating station.

Source Definition

This power plant with gasification operations consists of a source with an on-site contractor:

- (1) Cinergy (PSI Energy) - Wabash River, the primary operation, consists of two (2) plants
 - (a) PSI Energy, Inc. – Wabash River Generating Station, located at 450 Bolton Road, West Terre Haute, Indiana, 47885; and
 - (b) PSI Energy, Inc. – Wabash River Repowering, located at 445 Bolton Road, West Terre Haute, Indiana, 47885.
- (2) SG Solutions, LLC, the supporting operation, is located at 444 West Sandford Road, West Terre Haute, Indiana.

IDEM and VCAPC have determined that Cinergy - Wabash River (both plants), and SG Solutions, LLC are under the common control of Cinergy - Wabash River. These three plants are considered one source due to contractual control. Therefore, the term "source" in the Part 70 documents refers to Cinergy - Wabash River (both plants) and SG Solutions, LLC as one source.

Separate Part 70 permits will be issued to Cinergy - Wabash River (both plants) and SG Solutions, LLC solely for administrative purposes. The initial Part 70 Permit for Cinergy (PSI Energy) – Wabash River (both plants) was issued on September 2, 2004.

History

On November 12, 2004, PSI Energy, Inc. submitted an application to the OAQ and VCAPC requesting a permit modification to revise the 40 CFR Subpart GG language. On July 8, 2004, the US EPA issued final rule revisions (effective the same date) to the New Source Performance Standards for Stationary Gas Turbines, 40 CFR Subpart GG (69 FR 41346). PSI Energy, Inc. – Wabash River Generating Station was issued Part 70 Operating Permit No. T167-7176-00021 on September 2, 2004.

Explanation of Modification

The permit modification will consist of the following: Incorporation of revisions to New Source

Performance Standard (NSPS) for Turbines, 40 CFR 60, Subpart GG. These revisions include: the use of a continuous emission monitoring system (CEMS) to replace steam-to-fuel ratios for NO_x control; the elimination of fuel bound nitrogen determinations when the Permittee is not claiming any credit for fuel bound nitrogen; and, the removal of certain fuel sulfur analysis requirements when the gaseous fuel being combusted meets the definition of natural gas.

Existing Approvals

The source was issued a Part 70 Operating Permit (T167-7176-00021) on September 2, 2004.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Significant Permit Modification be approved. This recommendation is based on the following facts and conditions:

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

An application for the purposes of this review was received on November 12, 2004.

Emission Calculations

The permit modification will not result in any new emissions.

Justification for Modification

The Part 70 Operating permit is being modified through a Part 70 Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-7-12(d)(1) for a request that does not qualify as a minor permit modification or administrative amendment, and is considered as a significant change to existing permit terms and conditions, including monitoring, record keeping and reporting.

County Attainment Status

The source is located in Vigo County.

Pollutant	Status
PM-10	Attainment
PM2.5	Attainment
SO ₂	Maintenance Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Basic Non-Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NO_x are considered when evaluating the rule applicability relating to ozone. Vigo County has been designated as basic non-attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.

- (b) Vigo County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM 2.5 emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM 2.5 emissions. See the State Rule Applicability for the source section.
- (c) Vigo County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

Federal Rule Applicability

There are no new federal or state rules applicable to this permit modification, as the changes presented herein do not involve construction of a new emissions unit, nor the modification or reconstruction of an existing emissions unit.

This permit modification involves a revision of 40 CFR 60 Subpart GG conditions in the original Part 70 permit, based on US EPA's final rule revisions, published in the Federal Register on July 8, 2004. The following section documents these changes.

Changes to the Part 70 Permit Due to This Modification:

The following changes are made as the Significant Permit Modification to Part 70 No. T167-7176-00021. New language is shown in **bold** and deleted language is shown with a line through it for emphasis).

1. Under the rule revision, pursuant to 40 CFR 60.334(b) and IDEM's authorization of alternative monitoring requirements under 326 IAC 12-1(b), NO_x CEMs may be used in lieu of monitoring the water injection rate. The Permittee has opted to use the CEMS instead of monitoring water-to-fuel ratio. Condition D.1.11(c)(2) has been revised to reflect this change. Additionally, pursuant to 40 CFR 60.334(h)(2) and (3), if the Permittee claims zero allowance for fuel bound nitrogen, sampling the fuel for nitrogen content is not required, and if the fuel qualifies as natural gas, sampling the fuel for sulfur content is not required. The Permittee has elected not to monitor nitrogen content as the source is claiming zero allowance for fuel bound nitrogen. Conditions D.1.11(a), (d) and (e) have been revised to incorporate the above mentioned changes and the new language pertaining to sulfur and nitrogen content monitoring.

D.1.11 NSPS Test Methods and Procedures [326 IAC 12][40 CFR 60.335]

- (a) Pursuant to 40 CFR 60.335(a), the Permittee shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the IDEM, OAQ and VCAPC to determine the nitrogen content of the fuel being fired. **Pursuant to 40 CFR Part 60.334(h)(2), the Permittee is not required to monitor the nitrogen content of the fuel combusted in the turbine if the Permittee does not claim any allowance for fuel bound nitrogen.**
- (b) Pursuant to 40 CFR 60.335(b), the Permittee, in conducting the performance tests required in 40 CFR 60.8, shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided for in 40 CFR 60.8(b). Acceptable alternative methods and procedures are given in paragraph (f) of this Condition.
- (c) Pursuant to 40 CFR 60.335(c), the Permittee shall determine compliance with the nitrogen oxides and sulfur dioxide standards in Condition D.1.2 and Condition D.1.4 as follows:
 - (1) The nitrogen oxides emission rate (NO_x) shall be computed for each run using the following equation:

$$\text{NO}_x = (\text{NO}_{x0})(P_r/P_o)^{0.5} e^{19(H_o-0.00633)}(288\text{K}/T_a)1.53$$

where: NO_x = emission rate of NO_x at 15 percent O_2 and ISO standard conditions, volume percent;
 NO_{x0} = observed NO_x concentration, ppm by volume;
 P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg;
 P_o = observed combustor inlet absolute pressure at test, mm Hg;
 H_o = observed humidity of ambient air, g $\text{H}_2\text{O}/\text{g}$ air;
 e = transcendental constant, 2.718; and
 T_a = ambient temperature, $^{\circ}\text{K}$.

- ~~(2) The monitoring device of Condition D.1.12 shall be used to determine the fuel consumption and the water to fuel ratio necessary to comply with Condition D.1.2 at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.~~
- ~~(2) (3)~~ Method 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The NO_x emissions shall be determined at each of the load conditions specified in paragraph (c)(2) of this Condition.
- (d) Pursuant to 40 CFR 60.335(d), the owner or operator shall determine compliance with the sulfur content standard in Condition D.1.4 as follows: ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels (incorporated by reference - see 40 CFR 60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the IDEM, OAQ and VCAPC. **Notwithstanding the provisions of 40 CFR 60.334(h)(3), the Permittee is not required to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in Section 60.331(u), regardless of whether an existing custom schedule approved by IDEM, OAQ and VCAPC for Subpart GG requires such monitoring. The Permittee shall use one of the sources of information described in 40 CFR 60.334(h)(3)(i) and (ii).**
- (e) Pursuant to 40 CFR 60.335(e), to meet the requirements of Condition D.1.13, the Permittee shall use the methods specified in paragraphs (a) and ~~(b)~~ (d) of this Condition to determine the nitrogen and sulfur contents of the fuel being burned. The analysis may be performed by the Permittee, a service contractor retained by the Permittee, the fuel vendor, or any other qualified agency. **Pursuant to 40 CFR 60.334(h)(2) and (3), the Permittee is not required to analyze the fuel nitrogen content when the Permittee claims a zero allowance for fuel bound nitrogen. The Permittee also does not have to analyze the fuel for sulfur content if it qualifies as natural gas.**
- (f) Pursuant to 40 CFR 60.335(f) the Permittee may use the following alternatives to the reference methods and procedures specified in this condition: Instead of using the equation in paragraph (c)(1) of this Condition, manufacturers may develop ambient condition correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in 40 CFR 60.8 to ISO standard day conditions. These factors are developed for each gas turbine model they manufacturer in terms of combustion inlet pressure, ambient air pressure, ambient air humidity, and ambient air temperature. They shall be substantiated with data and must be approved for use

by the IDEM, OAQ and VCAPC before the initial performance test required by 40 CFR 60.8. Notices of approval of custom ambient condition correction factors will be published in the Federal Register.

2. Under the rule revision, pursuant to 40 CFR 60.334(b) and IDEM's authorization of alternative monitoring requirements under 326 IAC 12-1(b), NO_x CEMs may be used in lieu of monitoring the fuel consumption and water-to-fuel ratio. The Permittee has opted to use the CEMS instead of monitoring water-to-fuel ratio. Condition D.1.12 has been revised to reflect this change.

D.1.12 Nitrogen Oxide Controls

- (a) Pursuant to CP 167-2610-00021 (Issued May 27, 1993) and SSM 167-11328-00021 (issued January 27, 2000), the steam injection shall be used to control nitrogen oxide emissions to the levels required in Condition D.1.2 and D.1.3. ~~The proper steam injection ratios at various levels was determined during initial compliance testing (pursuant to 40 CFR 60.335) and an injection schedule (based on the fuel being used) was established and programed into the control system.~~
 - (b) The steam injection system shall be in service and operating at the appropriate rate, **as determined by the continuous emission monitoring system (CEMS) which consists of NO_x and O₂ or CO₂ monitors**, whenever the turbine is in operation, except for the time specified for start-up and shutdown period.
3. Under the rule revision, pursuant to 40 CFR 60.334(b) and IDEM's authorization of alternative monitoring requirements under 326 IAC 12-1(b), NO_x CEMs may be used in lieu of monitoring the water injection rate. The Permittee has opted to use the CEMS instead of monitoring water-to-fuel ratio. Conditions D.1.13(a) and (c)(1) have been revised to reflect this change. Additionally, pursuant to 40 CFR 60.334(h)(2) and (3), if the Permittee claims zero allowance for fuel bound nitrogen, sampling the fuel for nitrogen content is not required, and if the fuel qualifies as natural gas, sampling the fuel for sulfur content is not required. The Permittee has elected not to monitor nitrogen content as the source is claiming zero allowance for fuel bound nitrogen. Condition D.1.13(b) has been revised to incorporate the above mentioned changes and the new language pertaining to sulfur and nitrogen content monitoring.

D.1.13 NSPS Monitoring of Emissions [326 IAC 12][40 CFR 60.334]

- (a) ~~The Permittee shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water (steam) to fuel being fired in the turbine. This system shall be accurate to within 5.0 percent and shall be approved by IDEM, OAQ and VCAPC.~~ **Pursuant to 40 CFR 60.334(b), the Permittee shall install, certify, maintain, operate, and quality assure a continuous emission monitoring system (CEMS) consisting of NO_x and O₂ or CO₂ monitors. The CEMS shall be installed, certified, maintained and operated as specified in 40 CFR 60.334(b)(1) through (b)(3).**
 - (b) The Permittee shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The custom schedule for the combustion turbine shall be as follows:
 - (1) ~~Monitor the natural gas combusted through the analysis of pipeline gas from the natural gas supplier. Gas samples shall be taken once a calendar quarter at the closest proximity to the site of the turbine. In the event of less than 30 days of the turbine operation in a quarter, the quarterly sampling is waived. For these purposes, one day of operation shall be defined as any day that gas is burned for more than one (1) hour. Quarterly sampling and analysis of the gas shall be performed according to ASTM methods in 40 CFR 60.335(a) and 60.335(d).~~ **Pursuant to 40 CFR Part 60.334(h)(2), the Permittee is not required to monitor the nitrogen content of the fuel combusted in the turbine if the Permittee does not claim any allowance for fuel bound nitrogen.**

- (2) **Notwithstanding the provisions of 40 CFR 60.334(h)(3), the Permittee is not required to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in Section 60.331(u), regardless of whether an existing custom schedule approved by IDEM, OAQ and VCAPC for Subpart GG requires such monitoring. The Permittee shall use one of the sources of information described in 40 CFR 60.334(h)(3)(i) and (ii).**
- (c) Periods of excess emissions **and monitor downtime** that shall be reported are defined as follows:
- (1) ~~Nitrogen oxides. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with Condition D.1.2 by the performance test required in 40 CFR 60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required in 40 CFR 60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under § 60.335(a).~~
- (i) **An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NO_x concentration exceeds the applicable emission limit in Sec. 60.332(a)(1) or (2). For the purposes of this subpart, a "4-hour rolling average NO_x concentration" is the arithmetic average of the average NO_x concentration measured by the CEMS for a given hour (corrected to 15 percent O₂ and, if required under Sec. 60.335(b)(1), to ISO standard conditions) and the three unit operating hour average NO_x concentrations immediately preceding that unit operating hour.**
- (ii) **A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour, for either NO_x concentration or diluent (or both).**
- (iii) **Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the Permittee has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. The Permittee does not have to report ambient conditions if the Permittee opts to use the worst case ISO correction factor as specified in Sec. 60.334(b)(3)(ii), or if the Permittee is not using the ISO correction equation under the provisions of Sec. 60.335(b)(1).**
- (2) Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.
- (3) Ice fog. Each period during which an exemption provided in Condition D.1.2 is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.
4. Under the rule revision, pursuant to 40 CFR 60.334(b) and IDEM's authorization of alternative monitoring requirements under 326 IAC 12-1(b), NO_x CEMs may be used in lieu of monitoring the water injection rate. The Permittee has opted to use the CEMS instead of monitoring water-to-fuel ratio. Condition D.1.14(b) has been revised to reflect this change. Additionally, pursuant to 40 CFR

60.334(h)(2) and (3), if the Permittee claims zero allowance for fuel bound nitrogen, sampling the fuel for nitrogen content is not required, and if the fuel qualifies as natural gas, sampling the fuel for sulfur content is not required. The Permittee has elected not to monitor nitrogen content as the source is claiming zero allowance for fuel bound nitrogen. Condition D.1.14(b) has been revised to incorporate the above mentioned changes and the new language pertaining to sulfur and nitrogen content monitoring.

D.1.14 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.2, D.1.3, and D.1.4 the Permittee shall maintain all records generated in accordance with Conditions D.1.11 and D.1.12.
 - (b) To document compliance with Conditions D.1.5 and D.1.6 the Permittee shall maintain records containing the information necessary. The information shall, as a minimum, contain the following information.
 - (1) The date, fuel, and times for all periods of turbine operation;
 - ~~(2) The maximum load and corresponding steam to fuel ratio for each period of operation (including a comparison to the demonstrated proper injection rate for the specific fuel);~~
 - ~~(3)~~ **(2)** The fuel type **and** consumption **and actual ratio of steam to fuel** during all periods of the turbine operation;
 - ~~(4)~~ **(3)** The sulfur content of the fuel, **unless the fuel is demonstrated to meet the definition of natural gas in which case it is not required to be monitored; and**
 - ~~(5) The nitrogen content of each fuel being combusted (in percent by weight); and~~
 - ~~(6)~~ **(4)** Records of NO_x and SO₂ CEM data.
 - (c) To document compliance with Section C - Opacity and Condition D.1.7, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and Condition D.1.7.
 - (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 75.14.
 - (3) The results of all visible emission (VE) notations and Method 9 visible emission readings taken during any periods of COM downtime.
 - (d) To document compliance with Condition D.1.9, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
 - (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
5. Under the rule revision, pursuant to 40 CFR 60.334(b) and IDEM's authorization of alternative monitoring requirements under 326 IAC 12-1(b), NO_x CEMs may be used in lieu of monitoring the water injection rate. The Permittee has opted to use the CEMS instead of monitoring water-to-fuel ratio. Condition D.1.15(a) has been revised to reflect this change. Additionally, pursuant to 40 CFR 60.334(h)(2) and (3), if the Permittee claims zero allowance for fuel bound nitrogen, sampling the fuel for nitrogen content is not required, and if the fuel qualifies as natural gas, sampling the fuel for sulfur content is not required. The Permittee has elected not to monitor nitrogen content as the source is claiming zero allowance for fuel bound nitrogen. Condition D.1.15(b) has been revised to incorporate the above mentioned changes and the new language pertaining to sulfur and nitrogen content monitoring.

D.1.15 Reporting Requirements

- (a) The Permittee shall submit the following information on a quarterly basis:
- (1) Records of excess NOx emissions (defined in 326 IAC 3-5-7 and 40 CFR Part 60.7) from the continuous emissions monitoring system. These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements of this permit.
 - (2) A quarterly excess emissions report shall be submitted, based on any continuous opacity monitor (COM) required by this section, pursuant to 326 IAC 3-5-7. These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements, of this permit.

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

- (b) The Permittee shall submit the following information pursuant to 40 CFR 60.334 and 40 CFR 60.7:

To document compliance with Conditions D.1.2 and D.1.4, pursuant to 40 CFR 60.334, excess emissions and monitoring system performance (MSP) reports shall be submitted to the in accordance with Section C – General Reporting Requirements semi-annually for each six month period in the calendar year. All semi-annual reports shall be postmarked by the 30th day following the end of each six-month period. For the purpose of reports under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:

- (1) For nitrogen oxides: ~~Any period which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required in 40 CFR 60.8.~~ **Any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the applicable emission limit.**
- (2) For sulfur dioxide: Any daily period which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.

6. Condition B.23(c) has been revised to reflect the correct name of the section.

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 and VCAPC, 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 or VCAPC, 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, ~~IM & Billing~~, **Licensing, and Training** Section), to determine the appropriate permit fee.

7. Condition B.24 has been revised to properly reflect 326 IAC 1-1-6.

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

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any~~

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

Conclusion

The proposed permit modification to this stationary electric generating source shall be subject to the conditions of the attached Part 70 Significant Permit Modification No. 167-19843-00021.