



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: July 17, 2009

RE: SIGECO - Culley Newburgh / 173-27288-00001

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

## Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this 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, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels, Jr.*

**Governor**

*Thomas W. Easterly*

**Commissioner**

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

Allen K. Rose  
Vectren Corporation  
Wagner Operational Center, 1 North Main Street  
Evansville, Indiana 47711

July 17, 2009

Re: T173-27288-00001  
2<sup>nd</sup> Significant Permit Modification  
to OP No.: T173-6885-00001

Dear Mr. Rose:

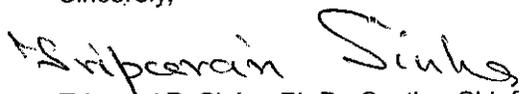
Southern Indiana Gas and Electric Company (SIGECO) F.B. Culley Generating Station, was issued a Part 70 Operating Permit on April 18, 2006 for a stationary electric utility generating station. A letter requesting changes to this permit was received on December 23, 2008. Pursuant to the provisions of 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 removal of the Unit 1 Boiler and the incorporation of Part 70 Operating Permit changes according to the Joint Stipulation of Stay Agreement pending in the Indiana Office of Environmental Adjudication under Cause 06-A-J-3719.

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

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Joe Sachse OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Joe Sachse or extension 4-5378, or dial (317) 234-5378.

Sincerely,

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

Attachments:

Updated Permit  
Technical Support Document  
PTE Calculations

ajs

cc: File – Warrick County  
Warrick County Health Department  
U.S. EPA, Region V  
Southwest Regional Office  
Compliance and Enforcement Branch  
Office of Legal Counsel – Tim Junk



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

## Part 70 Operating Permit Renewal

### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

**Southern Indiana Gas and Electric Company (SIGECO)  
F.B. Culley Generating Station  
3711 Darlington Road  
Newburgh, Indiana 47630**

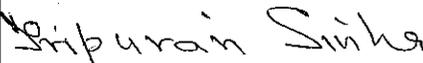
(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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

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

Operation Permit No.: T 173-26323-00001	
Issued by: Nisha Sizemore for Paul Dubenetsky, Assistant Commissioner Office of Air Quality	Issuance Date: April 18, 2006 Expiration Date: April 18, 2011

First Administrative Amendment No.: 173-26843-00001, issued on April 18, 2006;  
Acid Rain Renewal No. T 173-19027-00001 issued on May 3, 2006; and  
1<sup>st</sup> Significant Permit Modification No. T 173-26323-00001, issued on April 17, 2009.

2 <sup>nd</sup> Significant Permit Modification No.: T173-27288-00001	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: July 17, 2009 Expiration Date: April 18, 2011

## TABLE OF CONTENTS

<b>A. SOURCE SUMMARY</b> .....	<b>7</b>
A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]	
A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]	
A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]	
A.4 Part 70 Permit Applicability [326 IAC 2-7-2]	
<b>B. GENERAL CONDITIONS</b> .....	<b>12</b>
B.1 Definitions [326 IAC 2-7-1]	
B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]	
B.3 Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]	
B.5 Severability [326 IAC 2-7-5(5)]	
B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]	
B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]	
B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]	
B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]	
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]	
B.11 Emergency Provisions [326 IAC 2-7-16]	
B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]	
B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]	
B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]	
B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]	
B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]	
B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]	
B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12] [40 CFR 72]	
B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]	
B.20 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]	
B.21 Source Modification Requirement [326 IAC 2-7-10.5]	
B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]	
B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]	
B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]	
B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]	
<b>C. SOURCE OPERATION CONDITIONS</b> .....	<b>23</b>
<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b>	
C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2 Opacity [326 IAC 5-1]	
C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.5 Fugitive Dust Emissions [326 IAC 6-4]	
C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]	
C.7 Stack Height [326 IAC 1-7]	
C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	

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

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

**Compliance Requirements [326 IAC 2-1.1-11]**

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

**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)]
- C.12 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
- C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]
- C.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

**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]
- C.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]
- C.17 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]
- C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

**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]
- C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]
- C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

**Stratospheric Ozone Protection**

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

**Ambient Monitoring Requirements [326 IAC 7-3]**

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

**Consent Decree Requirements**

- C.24 Consent Decree [326 IAC 2-7-6(3)]

**D.1. EMISSIONS UNIT OPERATION CONDITIONS..... 33**

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

- D.1.1 Consent Decree
- D.1.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-3]
- D.1.3 Startup, Shutdown and Other Opacity Limits [326 IAC 5-1-3]
- D.1.4 Warrick County Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4-10]

**Compliance Determination Requirements**

- D.1.5 Particulate Control [326 IAC 2-7-6(6)]
- D.1.6 Sulfur Dioxide Control
- D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]
- D.1.8 Continuous Emission Monitoring [326 IAC 3-5] [40 CFR Part 75]
- D.1.9 Continuous Opacity Monitoring [326 IAC 3-5][40 CFR Part 75]
- D.1.10 Sulfur Dioxide Emissions [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2] [326 IAC 7-4-10]

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

- D.1.11 Electrostatic Precipitator (ESP) Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.1.12 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.1.13 SO<sub>2</sub> Monitoring System Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]

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

- D.1.14 Record Keeping Requirements
- D.1.15 Reporting Requirements

**D.2. EMISSIONS UNIT OPERATION CONDITIONS..... 39**

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

- D.2.1 Consent Decree
- D.2.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-3]
- D.2.3 Startup, Shutdown and Other Opacity Limits [326 IAC 5-1-3]
- D.2.4 Warrick County Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4-10]

**Compliance Determination Requirements**

- D.2.5 SO<sub>2</sub> Control [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.2.6 Particulate Control
- D.2.7 Nitrogen Oxide Control
- D.2.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]
- D.2.9 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.2.10 Continuous Emission Monitoring [326 IAC 3-5][40 CFR Part 75]
- D.2.11 Continuous Opacity Monitoring [326 IAC 3-5][40 CFR Part 75]
- D.2.12 Sulfur Dioxide Emissions [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2]

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

- D.2.13 Parametric Monitoring
- D.2.14 Broken or Failed Bag Detection
- D.2.15 SO<sub>2</sub> Monitoring System Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]

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

- D.2.16 Record Keeping Requirements
- D.2.17 Reporting Requirements

**D.3. EMISSIONS UNIT OPERATION CONDITIONS..... 45**

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

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

**Compliance Determination Requirements**

- D.3.2 Particulate Control [326 IAC 2-7-6(6)]

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

- D.3.3 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.3.4 Fabric Filter Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.3.5 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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

- D.3.6 Record Keeping Requirements

**D.4. EMISSIONS UNIT OPERATION CONDITIONS..... 49**

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

D.4.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

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

D.4.2 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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

D.4.3 Record Keeping Requirements

**D.5. EMISSIONS UNIT OPERATION CONDITIONS..... 51**

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

D.5.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

D.5.2 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants

D.5.3 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

**Compliance Determination Requirements**

D.5.4 NSPS Compliance Provisions [326 IAC 12] [40 CFR 60, Subpart OOO]

D.5.5 Particulate Control [326 IAC 2-7-6(6)]

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

D.5.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.5.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.5.8 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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

D.5.9 Record Keeping Requirements

**D.6. EMISSIONS UNIT OPERATION CONDITIONS..... 57**

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

D.6.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

D.6.2 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants

**Compliance Determination Requirement**

D.6.3 NSPS Compliance Provisions [326 IAC 12] [40 CFR 60, Subpart OOO]

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

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

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

D.6.5 Record Keeping Requirements

**D.7. EMISSIONS UNIT OPERATION CONDITIONS..... 59**

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

D.7.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

**E. TITLE IV CONDITIONS - Acid Rain Program..... 60**

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

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

<b>F. Nitrogen Oxides Budget Trading Program - NO<sub>x</sub> Budget Permit for NO<sub>x</sub> Budget Units Under 326 IAC 10-4-1(a)</b> .....	<b>61</b>
F.1 Automatic Incorporation of Definitions [326 IAC 10-4-7(e)]	
F.2 Standard Permit Requirements [326 IAC 10-4-4(a)]	
F.3 Monitoring Requirements [326 IAC 10-4-4(b)]	
F.4 Nitrogen Oxides Requirements [326 IAC 10-4-4(c)]	
F.5 Excess Emissions Requirements [326 IAC 10-4-4(d)]	
F.6 Record Keeping Requirements [326 IAC 10-4-4(e)] [326 IAC 2-7-5(3)]	
F.7 Reporting Requirements [326 IAC 10-4-4(e)]	
F.8 Liability [326 IAC 10-4-4(f)]	
F.9 Effect on Other Authorities [326 IAC 10-4-4(g)]	
<b>G. Clean Air Interstate (CAIR) Nitrogen Oxides Annual, Sulfur Dioxide, and Nitrogen Oxides Ozone Season Trading Programs – CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)</b> .....	<b>65</b>
G.1 Automatic Incorporation of Definitions [326 IAC 24-1-7(e)] [326 IAC 24-2-7(e)] [326 IAC 24-3-7(e)] [40 CFR 97.123(b)] [40 CFR 97.223(b)] [40 CFR 97.323(b)]	
G.2 Standard Permit Requirements [326 IAC 24-1-4(a)] [326 IAC 24-2-4(a)] [326 IAC 24-3-4(a)] [40 CFR 97.106(a)] [40 CFR 97.206(a)] [40 CFR 97.306(a)]	
G.3 Monitoring, Reporting, and Record Keeping Requirements [326 IAC 24-1-4(b)] [326 IAC 24-2-4(b)] [326 IAC 24-3-4(b)] [40 CFR 97.106(b)] [40 CFR 97.206(b)] [40 CFR 97.306(b)]	
G.4.1 Nitrogen Oxides Emission Requirements [326 IAC 24-1-4(c)] [40 CFR 97.106(c)]	
G.4.2 Sulfur Dioxide Emission Requirements [326 IAC 24-2-4(c)] [40 CFR 97.206(c)]	
G.4.3 Nitrogen Oxides Ozone Season Emission Requirements [326 IAC 24-3-4(c)] [40 CFR 97.306(c)]	
G.5 Excess Emissions Requirements [326 IAC 24-1-4(d)] [326 IAC 24-2-4(d)] [326 IAC 24-3-4(d)] [40 CFR 97.106(d)] [40 CFR 97.206(d)] [40 CFR 97.306(d)]	
G.6 Record Keeping Requirements [326 IAC 24-1-4(e)] [326 IAC 24-2-4(e)] [326 IAC 24-3-4(e)] [326 IAC 2-7-5(3)] [40 CFR 97.106(e)] [40 CFR 97.206(e)] [40 CFR 97.306(e)]	
G.7 Reporting Requirements [326 IAC 24-1-4(e)] [326 IAC 24-2-4(e)] [326 IAC 24-3-4(e)] [40 CFR 97.106(e)] [40 CFR 97.206(e)] [40 CFR 97.306(e)]	
G.8 Liability [326 IAC 24-1-4(f)] [326 IAC 24-2-4(f)] [326 IAC 24-3-4(f)] [40 CFR 97.106(f)] [40 CFR 97.206(f)] [40 CFR 97.306(f)]	
G.9 Effect on Other Authorities [326 IAC 24-1-4(g)] [326 IAC 24-2-4(g)] [326 IAC 24-3-4(g)] [40 CFR 97.106(g)] [40 CFR 97.206(g)] [40 CFR 97.306(g)]	
<b>Certification</b> .....	<b>71</b>
<b>Emergency Occurrence Report</b> .....	<b>72</b>
<b>Quarterly Deviation and Compliance Monitoring Report</b> .....	<b>74</b>

## SECTION A SOURCE SUMMARY

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

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

---

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

Source Address:	3711 Darlington Road, Newburgh, Indiana 47630
Mailing Address:	P.O Box 209, Evansville, IN 47702
General Source Phone Number:	812-491-4769
SIC Code:	4911
County Location:	Warrick
Source Location Status:	Nonattainment for PM <sub>2.5</sub> standard and ozone under the 8-hour standard
Source Status:	Attainment for all other criteria pollutants Part 70 Operating Permit Program Major Source, under PSD and Nonattainment New Source Review Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

---

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

- (a) One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NOx burner for NOx reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using a fabric filter for PM emission control, and low NOx burner and selective catalytic reduction technology (SCR) for NOx reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- (c) Coal storage and handling operations, identified as Unit 5F, constructed in 1954, expanded in 1963 and 1970, and modified in 1994, consisting of the following activities:
  - (1) Floating dock unloading clamshell serving both coal and limestone unloading operations (served by S/V 6).
  - (2) Truck load-out station serving both coal and limestone unloading operations (served by S/V 9).
  - (3) Unit 2 low sulfur coal storage pile of 55,000 tons.

- (4) Unit 2 coal pile hopper with a maximum coal feed belt capacity of 600 tons per hour.
- (5) Unit 2 coal hopper conveyor (C1) with a maximum coal feed belt capacity of 600 tons per hour.
- (6) Unit 2 coal transfer house conveyor drop with a maximum coal feed belt capacity of 600 tons per hour.
- (7) Unit 2 coal transfer house conveyor (#4) with a maximum coal feed belt capacity of 1240 tons per hour.
- (8) Unit 2 coal transfer house conveyor drop with a maximum coal feed belt capacity of 1240 tons per hour.
- (9) Unit 2 coal transfer house conveyor with a maximum coal feed belt capacity of 1240 tons per hour.
- (10) Unit 2 powerhouse coal tripper conveyor bunker drop with a maximum coal feed belt capacity of 1240 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (11) Unit 2 powerhouse coal tripper conveyor with a maximum coal feed belt capacity of 1240 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (12) Unit 2 powerhouse coal bunkers with a maximum coal feed belt capacity of 1240 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (13) Units 2 and 3 coal pile of 645,000 tons.
- (14) Unit 2 coal pile hopper with a maximum coal feed belt capacity of 640 tons per hour.
- (15) Unit 2 coal pile hopper conveyor with a maximum coal feed belt capacity of 640 tons per hour.
- (16) Unit 3 coal pile hopper with a maximum coal feed belt capacity of 640 tons per hour.
- (17) Unit 3 coal pile hopper conveyor with a maximum coal feed belt capacity of 640 tons per hour.
- (18) Unit 3 coal transfer house conveyor, with a maximum coal feed belt capacity of 640 tons per hour.
- (19) Unit 3 coal transfer house conveyor drop with a maximum coal feed belt capacity of 640 tons per hour with an enclosed transfer house and fabric filter (served by S/V 8).
- (20) Unit 3 powerhouse coal tripper conveyor with a maximum coal feed belt capacity of 640 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (21) Unit 3 powerhouse coal tripper conveyor bunker drop with a maximum coal feed belt capacity of 640 tons per hour and with an enclosed powerhouse and sealed

transfer points.

- (22) Unit 3 powerhouse coal bunker with a maximum coal feed belt capacity of 640 tons per hour and with an enclosed powerhouse and sealed transfer points.
  - (23) Miscellaneous enclosed coal bunker and weigh-scales with vents.
- (d) A fly ash handling facility, identified as Unit 6, constructed in 1994, consisting of the following operations:
- (1) One (1) fly ash storage silo receiving fly ash via a close-pipe vacuum handling system from the electrostatic precipitator hoppers of Units 2 and 3, with a maximum capacity of 1000 tons, and a maximum throughput of 179.9 tons per hour, with a fabric filter separator exhausting to stack 16 and a bin filter exhausting to stack 17. The filter/separator is designed for operation 50% of the time.
  - (2) One (1) fly ash silo truck loadout station, with a maximum capacity of 25 tons per hour (the coal trucks have a maximum capacity of 25 tons and haul ash at the rate of one truck per hour), with an enclosed telescoping discharged chute and emissions reduced by fly ash wetting and partial loading of the trucks.
  - (3) One (1) East Ash Pond receiving sluiced (closed-pipe) bottom ash from Units 1, 2 and 3 and sluiced fly ash from Unit 1. The ash is discharged to the pond at a maximum annual rate of 4.65 tons per hour and stored in wet form, that is, a layer of water maintained above the ponded ash and dredging operations conducted periodically to maintain the ponded storage state.
- (e) A limestone handling facility, identified as Unit 7, constructed in 1994, consisting of the following operations:
- (1) One (1) limestone unloading floating clamshell dock with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 6. (This operation serves both coal and limestone unloading operations.)
  - (2) One (1) covered conveyor, identified as Conveyor 1 (CL-1), with a maximum throughput of 550 tons per hour.
  - (3) One (1) limestone truck loadout to conveyor with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 9. (This operation serves both coal and limestone unloading operations.)
  - (4) One (1) covered conveyor, identified as Conveyor 2 (L-1), with a maximum throughput of 800 tons per hour.
  - (5) One (1) limestone storage building with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 10.
  - (6) One (1) limestone reclaim system located inside a totally-enclosed building adjacent to the limestone storage building.
  - (7) One (1) limestone storage building loadout with a maximum capacity of 750 tons per hour, an enclosed building for dust control, and exhausting indoors.
  - (8) One (1) covered conveyor, identified as Conveyor 3 (L-2), with a maximum throughput of 300 tons per hour.

- (9) One (1) limestone transfer house (No. 1) with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 12.
  - (10) One (1) covered conveyor, identified as Conveyor 4 (L-3), with a maximum throughput of 300 tons per hour.
  - (11) One (1) coal and limestone transfer house (serving Unit No. 3) with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 8. (This operation serves both coal and limestone transferring operations.)
  - (12) One (1) covered conveyor, identified as Conveyor 5 (L-4), with a maximum throughput of 300 tons per hour.
  - (13) One (1) limestone transfer house (No. 2) with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 14.
  - (14) One (1) covered conveyor, identified as Conveyor 6 (L-5), with a maximum throughput of 300 tons per hour.
  - (15) One (1) limestone day silo with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 15.
- (f) A gypsum wet filter cake handling facility, identified as Unit 8, constructed in 1994, consisting of the following operations:
- (1) One (1) gypsum filter cake conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control, exhausting to stack 11.
  - (2) One (1) gypsum filter cake conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control, exhausting to stack 13.
  - (3) One (1) covered conveyor, identified as G1A, with a maximum capacity of 50 tons per hour.
  - (4) One (1) covered conveyor, identified as G1B (operates only when G1A is offline), with a maximum capacity of 50 tons per hour.
  - (5) One (1) gypsum filter cake transfer house conveyor drop with a maximum capacity of 35 tons per hour, a fabric filter for dust control, and exhausting to stack 4.
  - (6) One (1) covered conveyor, identified as G2A, with a maximum capacity of 50 tons per hour.
  - (7) One (1) covered conveyor, identified as G2B (operates only when G2A is offline), with a maximum capacity of 50 tons per hour.
  - (8) One (1) gypsum storage building consisting of two (2) 1000-ton gypsum storage silos and one (1) storage pile designated for truck haul-away exhausting indoors.
  - (9) One (1) covered silo to barge loadout primary filter cake transfer conveyor, identified as Conveyor 4, with a maximum capacity of 400 tons per hour, with a fabric filter for dust control, exhausting to stack 7.
  - (10) One (1) covered silo to truck secondary transfer conveyor, identified as Conveyor 3, with a maximum capacity of 400 tons per hour and exhausting indoors.

- (11) One (1) gypsum barge loadout conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control and exhausting to stack 5.
- (12) One (1) gypsum barge loadout with two (2) telescoping transfer chutes delivering filter cake gypsum to river barges with a maximum capacity of 400 tons per hour.
- (g) One (1) flue gas desulfurization (FGD) system for Units 2 and 3, constructed in 1994, consisting of the following limestone operations:
  - (1) Two (2) wet ball mills (one operational and one full capacity spare), receiving limestone from the day silo of the limestone handling facility (Unit 8). Each ball mill is a closed-device (hard-piped, enclosed design), wet mill capable of handling 20.5 tons per hour of dry limestone feed.
  - (2) Two (2) limestone slurry storage tanks, receiving the ball mill product (fresh limestone slurry), which is then discharged into the scrubber system. The scrubbed gas stream exits the absorber tower through the scrubber stack.

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

---

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

- (a) Vents from ash transport systems not operated at positive pressure [326 IAC 6-3-2].
- (b) Coal bunker and coal scale exhausts and associated dust collector vents [326 IAC 6-3-2].
- (c) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].

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

---

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

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

## SECTION B GENERAL CONDITIONS

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

---

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

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

---

- (a) This permit, T 173-6885-00001, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

---

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

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

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

---

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

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

---

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

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

---

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

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

---

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

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

---

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

---

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

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

and

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

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

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

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

---

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

---

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) All terms and conditions of permits established prior to T173-26323-00001 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)

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

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

B.15 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

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

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

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

Request for renewal shall be submitted to:

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

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

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

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

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

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

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

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

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

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

---

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

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

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

---

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

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

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

and

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

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

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

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

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

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

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

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.
- (f) This condition does not apply to emission trades of SO<sub>2</sub> or NO<sub>x</sub> under 326 IAC 21 or 326 IAC 10-4.

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

---

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2 and/or 326 IAC 2-3.

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

---

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

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

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

---

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

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

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

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

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

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

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

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

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

#### C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

#### C.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 by using ambient air quality modeling pursuant to 326 IAC 1-7-4. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Licensed Asbestos Inspector  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

---

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

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

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

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

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

### Compliance Requirements [326 IAC 2-1.1-11]

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

---

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

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

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

---

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

---

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

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

---

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

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

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

---

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

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

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

---

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

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

---

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

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

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

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

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

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

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

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

The statement must be submitted to:

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

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

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

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

---

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

- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
  - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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

---

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) 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) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
  - (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

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

## Stratospheric Ozone Protection

### C.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.

## 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)]

## Consent Decree Requirements

### C.24 Consent Decree [326 IAC 2-7-6(3)]

---

Pursuant to Consent Decree: Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, beginning thirty days after the calendar quarter ending December 31, 2003, continuing on a semi-annual basis until December 31, 2010, SIGECO shall submit to EPA a progress report. The progress report shall contain the following information:

- (a) All information necessary to determine compliance with this Consent Decree; and
- (b) All information indicating that the installation and/or commencement of operation for a pollution control device may be delayed, including the nature and cause of the delay, and any steps taken by SIGECO to mitigate such delay.

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NOx burner for NOx reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

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

#### D.1.1 Consent Decree

Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the FGD scrubber serving Unit 2 shall achieve and maintain a 30-Day Rolling Average SO<sub>2</sub> Removal Efficiency of at least ninety-five percent (95%).

#### D.1.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(b), the particulate matter (PM) emissions from Unit 2 shall not exceed the 0.38 pounds per million Btu heat input.

#### D.1.3 Startup, Shutdown and Other Opacity Limits [326 IAC 5-1-3]

- (a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies to Unit 2:

- (1) When building a new fire in a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of two (2) hours (twenty (20) six (6)-minute-averaged periods) during the start up period, or until the flue gas temperature entering the electrostatic precipitator reaches two hundred and fifty (250) degrees Fahrenheit at the inlet of the electrostatic precipitator, which ever occurs first.
- (2) When shutting down a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of two (2) hours (twenty (20) six (6)-minute averaging periods) during the shutdown period.
- (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 period in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

- (c) If a facility cannot meet the opacity limitations in (a) and (b) of this Condition, the Permittee may submit a written request to IDEM, OAQ, 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.1.4 Warrick County Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4-10]

---

- (a) Pursuant to 326 IAC 7-4-10, the sulfur dioxide (SO<sub>2</sub>) emissions from Unit 2 shall not exceed 2.79 pounds per MMBtu as specified in 326 IAC 7-4-10(a)(1). Unit 2 has an alternative SO<sub>2</sub> limit; the SO<sub>2</sub> emissions shall not exceed 4.40 pounds per MMBtu, as specified in 326 IAC 7-4-10(a)(1)(B).
- (b) Pursuant to 326 IAC 7-4-10(a)(1)(C), SIGECO shall notify IDEM, OAQ and the U.S. EPA via certified mail at least fourteen (14) days prior to its intention to rely on the alternative SO<sub>2</sub> limit (4.4 pounds per MMBtu), or to switch between the primary limit (2.79 pounds per MMBtu) and the alternative SO<sub>2</sub> limit (4.4 pounds per MMBtu).

### Compliance Determination Requirements

#### D.1.5 Particulate Control [326 IAC 2-7-6(6)]

---

- (a) In order to comply with Condition D.1.2, the Permittee shall operate the electrostatic precipitator (ESP) at all times Unit 2 is combusting coal (except as otherwise specified in this permit or when firing only natural gas).
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall operate the electrostatic precipitators (ESP) at all times Unit 2 is combusting coal to maximize PM emission reductions, consistent with the operational and maintenance limitations of the unit.

#### D.1.6 Sulfur Dioxide Control

---

- (a) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, and in order to comply with Conditions D.1.1 and D.1.4, the Permittee shall operate the FGD scrubber at all times Unit 2 is in operation (except as otherwise specified in this permit or when firing only natural gas).
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall continuously operate the FGD serving Units 2 and 3 at all times that the Unit 2 is in operation, except in the event of a planned FGD outage. Following startup of coal, the Permittee does not need to operate the FGD until the unit is fired with coal.
- (c) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, in the event of a planned FGD outage, SIGECO may continue to operate Unit 2 but shall burn down the coal existing in the Unit 2 bunker to the extent practicable, and, prior to shutting down the FGD, load Compliance Coal into the bunker for use until such time as the FGD resumes operation. In the event of an unplanned FGD outage, SIGECO shall feed Compliance Coal to the Unit 2 bunker until such time as the FGD resumes operation. Compliance Coal is defined as 2.0 lb/MMBtu SO<sub>2</sub> as demonstrated by a 4-hour composite sample of the feed stock.

#### D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

---

In order to demonstrate compliance with Condition D.1.2, the Permittee shall perform PM testing for Unit 2 no later than March 30, 2011. This test shall be repeated at least once every two and a half (2.5) years following this valid compliance demonstration. Testing shall be conducted utilizing methods as approved by the Commissioner and in accordance with Section C - Performance Testing.

D.1.8 Continuous Emission Monitoring [326 IAC 3-5] [40 CFR Part 75]

- (a) Pursuant to 326 IAC 3-5-1 and 40 CFR Part 75, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring SO<sub>2</sub>, NO<sub>x</sub> and CO<sub>2</sub> emissions from Unit 2 (at the outlet of the scrubber). Each CEMS must meet all applicable performance specifications of 326 IAC 3-5-2 and 40 CFR Part 75. The data from the respective CEMS shall be used to determine compliance with Condition D.1.10.
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring SO<sub>2</sub> emission rate at the inlet to the scrubber. The data from the inlet CEMS and outlet CEMS of (a) above shall be used to determine compliance with Condition D.1.1.
- (c) The CEMS must operate and record data during all periods of operation of the affected facilities including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- (d) All CEMS are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a CEMS pursuant to 326 IAC 3-5 and/or 40 CFR Part 75.

D.1.9 Continuous Opacity Monitoring [326 IAC 3-5][40 CFR Part 75]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), and 326 IAC 2, a continuous monitoring system shall be installed, calibrated, maintained, and operated to measure the opacity of the exhaust from Unit 2. The continuous opacity monitoring systems (COMS) shall meet the performance specifications of 326 IAC 3-5-2.
- (b) The COMS must operate and record data during all periods of operation of the affected facilities including periods of startup, shutdown, malfunction or emergency conditions, except for COMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- (c) All COMS are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (d) In instances of COMS downtime, the source shall follow the procedures in accordance with Section C - Maintenance of Continuous Opacity Monitoring Equipment, until such time that the COMS is back in operation.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a COMS pursuant to 326 IAC 3-5 and/or 40 CFR Part 75.

D.1.10 Sulfur Dioxide Emissions [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2] [326 IAC 7-4-10]

- (a) Pursuant to 326 IAC 7-2-1(a) and (c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the applicable limits in Condition D.1.4. Compliance with these limits shall be determined using SO<sub>2</sub> CEMS data and demonstrated using a thirty (30) day rolling weighted average.

- (b) In order to comply with Condition D.1.1, the Permittee shall demonstrate that the FGD scrubber operates with the minimum sulfur dioxide (SO<sub>2</sub>) removal efficiency required by Condition D.1.1.
- (1) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the inlet SO<sub>2</sub> emission rate shall be determined in accordance with 40 CFR 75.15, using CEMS data from the inlet to the scrubber.
- (2) The continuous emission monitoring (CEM) data (Condition D.1.8) shall be used to determine the SO<sub>2</sub> emissions following the scrubber.
- (3) A comparison of the data from (1) and (2) above shall be used to determine the efficiency of the FGD scrubber.

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

#### **D.1.11 Electrostatic Precipitator (ESP) Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

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

#### **D.1.12 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

- (a) In the event of opacity from Unit 2 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 - Response to Excursions or Exceedances such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below thirty percent (30%). 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 Unit 2 are not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) The Permittee may request that the IDEM, OAQ approve a different opacity trigger level than the one specified in (a) and (b) of this condition, provided the Permittee can demonstrate, through stack testing or other appropriate means, that a different opacity trigger level is appropriate for monitoring compliance with the applicable particulate matter mass emission limits.

#### **D.1.13 SO<sub>2</sub> Monitoring System Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]**

---

Whenever the SO<sub>2</sub> continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the scrubber continues in a manner typical for the boiler load

and sulfur content of the coal fired. Scrubber parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

#### **D.1.14 Record Keeping Requirements**

---

- (a) To document compliance with Section C - Opacity and Conditions D.1.2, D.1.3, D.1.11, and D.1.12, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.2 and D.1.3.
  - (1) Data and results from the most recent stack test.
  - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5-6.
  - (3) The results of all Method 9 visible emission readings taken during any periods of COMS downtime.
  - (4) All ESP Parametric monitoring readings.
- (b) To document compliance with Conditions D.1.1, D.1.4, D.1.10 and D.1.13, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the SO<sub>2</sub> limits as required in Conditions D.1.1, D.1.4 and D.1.10. The Permittee shall maintain records in accordance with (2) and (3) below during SO<sub>2</sub> CEM system downtime.
  - (1) All SO<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6, 326 IAC 7-2-1(g).
  - (2) Boiler load, recirculation pH, slurry feed rate and number of re-circulation pumps in service during SO<sub>2</sub> CEM downtime, in accordance with Condition D.1.13.
  - (3) Actual fuel usage during each SO<sub>2</sub> CEM downtime.
- (c) To document compliance with Conditions D.1.8, the Permittee shall maintain records of all NO<sub>x</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6. Records shall be complete and sufficient to establish compliance with the NO<sub>x</sub> limit as required in Condition D.1.8.
- (d) 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.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### **D.1.15 Reporting Requirements**

---

- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Conditions D.1.8 and D.1.9 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (c) Pursuant to MPR 173-12521-00001, issued on February 23, 2001, the Permittee shall maintain and submit to IDEM, OAQ, information demonstrating that the maintenance modifications did not result in an increase in the annual emissions of any pollutant which is regulated under the Clean Air Act (CAA) [40 CFR 52.21; 326 IAC 2-1.1; 3226 IAC 2-7-10.5]. This information shall be submitted on an annual basis for a period of five (5) years from the date Unit 2 resumed regular operation following the completion of the maintenance activities (December, 2002). This information shall include the following:
- (1) Annual fuel use;
  - (2) Hours of operation;
  - (3) Annual emissions for all criteria pollutants; and
  - (4) Data and results from the most recent stack test.

This information shall be submitted to:

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

and shall be postmarked or delivered by other means no later than thirty (30) calendar days following the last day of the reporting period.

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)] : Unit 3

- (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using a fabric filter for PM emission control, and low NOx burner and selective catalytic reduction technology (SCR) for NOx reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

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

#### D.2.1 Consent Decree

Pursuant to Consent Decree: Civil Action No. IP99-1692 C-M/F, effective June 6, 2003:

- (a) SIGECO shall continuously operate the SCR to achieve and maintain a 30-day rolling average emission rate for NOx of not greater than 0.100 lb/MMBtu.
- (b) The FGD serving Unit 3 shall achieve and maintain a 30-day rolling average SO<sub>2</sub> removal efficiency of at least ninety-five percent (95%).
- (c) By no later than June 30, 2007, SIGECO shall install and operate a fabric filter at Unit 3 that achieves and maintains a PM emission rate of less than or equal to 0.015 lb/MMBtu.

#### D.2.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(b), the particulate matter (PM) emissions from Unit 3 shall not exceed the 0.32 pounds per million Btu heat input.

#### D.2.3 Startup, Shutdown and Other Opacity Limits [326 IAC 5-1-3]

- (a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies to Unit 3:
- (1) When building a new fire in a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of one (1) hour (ten (10) six (6)-minute averaging periods) during the startup period, or until the flue gas temperature reaches two hundred and fifty (250) degrees Fahrenheit at the inlet of the electrostatic precipitator, whichever occurs first.
- (2) When shutting down a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of one half (0.5) hour (five (5) six (6)-minute averaging periods) during the shutdown period.
- (b) If a facility cannot meet the opacity limitations in (a) of this Condition, the Permittee may submit a written request to IDEM, OAQ, 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.2.4 Warrick County Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4-10]

---

Pursuant to 326 IAC 7-4-10, the sulfur dioxide (SO<sub>2</sub>) emissions from Unit 3 shall not exceed 5.41 pounds per MMBtu as specified in 326 IAC 7-4-10(a)(1).

#### Compliance Determination Requirements

#### D.2.5 SO<sub>2</sub> Control [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

---

- (a) In order to comply with Condition D.2.4, the Permittee shall continuously operate the FGD scrubber at all times Unit 3 is in operation (except as otherwise specified in this permit or when firing only natural gas).
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall continuously operate the FGD at all times that the Unit 3 is in operation, except in the event of a planned FGD outage. Following startup of coal, the Permittee does not need to operate the FGD until the unit is fired with coal.

#### D.2.6 Particulate Control

---

In order to demonstrate compliance with Condition D.2.2, the Permittee shall operate the fabric filter at all times (except as otherwise specified in this permit) Unit 3 is in operation.

#### D.2.7 Nitrogen Oxide Control

---

- (a) The SCR for NO<sub>x</sub> control shall be in operation at all times (except as otherwise specified in this permit) when Unit 3 is in operation.
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall operate the SCR on Unit 3 at all times that the facility is in operation, consistent with the technological limitations, manufacturers' specifications, and good operating practices for the SCR.

#### D.2.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

---

Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall perform PM testing for Unit 3 no later than December 31, 2009. Within the two (2) calendar years following the most recent valid stack test, compliance with the PM limitation shall be determined by a performance stack test using methods as approved by the commissioner. This test shall be repeated at least once every two (2.0) years following this valid compliance demonstration. Testing shall be conducted utilizing methods as approved by the Commissioner and in accordance with Section C- Performance Testing.

#### D.2.9 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 - Response to Excursions or Exceedances such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below thirty percent (30%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, and ESP T-R sets being returned to service.
- (b) Opacity readings in excess of 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 - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) The Permittee may request that the IDEM, OAQ approve a different opacity trigger level than the one specified in (a) and (b) of this condition, provided the Permittee can demonstrate, through stack testing or other appropriate means, that a different opacity

trigger level is appropriate for monitoring compliance with the applicable particulate matter mass emission limits.

#### D.2.10 Continuous Emission Monitoring [326 IAC 3-5][40 CFR Part 75]

- (a) Pursuant to 326 IAC 3-5-1, and 40 CFR Part 75, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring SO<sub>2</sub>, NO<sub>x</sub>, and CO<sub>2</sub> emissions from Unit 3. Each CEMS must meet all applicable performance specifications of 326 IAC 3-5-2, and 40 CFR Part 75. The data from the respective CEMS will be used to determine compliance with Conditions D.2.1, D.2.4 and D.2.12.
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring SO<sub>2</sub> emission rate at the inlet to the scrubber. The data from the inlet CEMS and outlet CEMS of (a) above shall be used to determine compliance with Condition D.2.1(b).
- (c) The CEMS must operate and record data during all periods of operation of the affected facilities including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- (d) All CEMS are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a CEMS pursuant to 326 IAC 3-5 and/or 40 CFR Part 75.

#### D.2.11 Continuous Opacity Monitoring [326 IAC 3-5][40 CFR Part 75]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), and 326 IAC 2, a continuous monitoring system shall be installed, calibrated, maintained, and operated to measure the opacity of the exhaust from Unit 3. The continuous opacity monitoring system (COMS) shall meet the performance specifications of 326 IAC 3-5-2.
- (b) The COMS must operate and record data during all periods of operation of the affected facilities including periods of startup, shutdown, malfunction or emergency conditions, except for COMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- (c) All COMS are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (d) In instances of COMS downtime, the source shall follow the procedures in accordance with Section C - Maintenance of Opacity Monitoring Equipment, until such time that the COMS is back in operation.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a COMS pursuant to 326 IAC 3-5 and/or 40 CFR Part 75.

#### D.2.12 Sulfur Dioxide Emissions [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2]

- (a) Pursuant to 326 IAC 7-2-1(a) and (c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the applicable limits in Condition D.2.4. Compliance with these limits shall be determined using SO<sub>2</sub> CEMS data and demonstrated using a thirty (30) day rolling weighted average.

- (b) In order to comply with Condition D.2.1, the Permittee shall demonstrate that the FGD scrubber operates with the minimum sulfur dioxide (SO<sub>2</sub>) removal efficiency required by Condition D.2.1.
- (1) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the inlet SO<sub>2</sub> emission rate shall be determined in accordance with 40 CFR 75.15, using CEMS data from the inlet to the scrubber.
  - (2) The continuous emission monitoring (CEM) data (Condition D.2.10) shall be used to determine the SO<sub>2</sub> emissions following the scrubber.
  - (3) A comparison of the data from (1) and (2) above shall be used to determine the efficiency of the FGD scrubber.

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

#### **D.2.13 Parametric Monitoring**

---

- (a) The Permittee shall record the pressure drop across each of the fabric filter used in conjunction with Unit 3 at least once per day when the facilities are in operation. When for any one reading, the pressure drop across any of the fabric filters is outside the normal range of 3.5 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### **D.2.14 Broken or Failed Bag Detection**

---

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

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

**D.2.15 SO<sub>2</sub> Monitoring System Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]**

---

Whenever the SO<sub>2</sub> continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall monitor and record boiler load, recirculation pH, slurry feed rate, and number of recirculation pumps in service, to demonstrate that the operation of the scrubber continues in a manner typical for the boiler load and sulfur content of the coal fired. Scrubber parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or a backup CEMS is brought online.

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

**D.2.16 Record Keeping Requirements**

---

- (a) To document compliance with Section C - Opacity and Conditions D.2.3 and D.2.9, 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 Condition D.2.3.
- (1) Data and results from the most recent stack test.
  - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5-6.
  - (3) The results of all Method 9 visible emission readings taken during any periods of COMS downtime.
- (b) To document compliance with Conditions D.2.1, D.2.4, D.2.11, and D.2.16, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the SO<sub>2</sub> limits as required in Conditions D.2.3, D.2.4, and D.2.12. The Permittee shall maintain records in accordance with (2) and (3) below during SO<sub>2</sub> CEM system downtime.
- (1) All SO<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6, 326 IAC 7-2-1(g).
  - (2) Boiler load, recirculation pH, slurry feed rate and number of re-circulation pumps in service during SO<sub>2</sub> CEM downtime, in accordance with Condition D.2.16.
  - (3) Actual fuel usage during each SO<sub>2</sub> CEM downtime.
- (c) To document compliance with Conditions D.2.1 and D.2.10 the Permittee shall maintain records of all NO<sub>x</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6. Records shall be complete and sufficient to establish compliance with the NO<sub>x</sub> limits as required in Conditions D.2.1 and D.2.10.
- (d) To document compliance with Condition D.2.14, the Permittee shall maintain daily records of the pressure drop across the fabric filter. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (e) 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.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping

Requirements, of this permit.

D.2.17 Reporting Requirements

- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Conditions D.2.10 and D.2.11 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
  
- (b) Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:
  - (1) Date of downtime.
  - (2) Time of commencement.
  - (3) Duration of each downtime.
  - (4) Reasons for each downtime.
  - (5) Nature of system repairs and adjustments.

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

**SECTION D.3**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]: Coal Handling Facilities**

- (c) Coal storage and handling operations, identified as Unit 5F, constructed in 1954, expanded in 1963 and 1970, and modified in 1994, consisting of the following activities:
- (1) Floating dock unloading clamshell serving both coal and limestone unloading operations (served by S/V 6).
  - (2) Truck load-out station serving both coal and limestone unloading operations (served by S/V 9).
  - (3) Unit 2 low sulfur coal storage pile of 55,000 tons.
  - (4) Unit 2 coal pile hopper with a maximum coal feed belt capacity of 600 tons per hour.
  - (5) Unit 2 coal hopper conveyor (C1) with a maximum coal feed belt capacity of 600 tons per hour.
  - (6) Unit 2 coal transfer house conveyor drop with a maximum coal feed belt capacity of 600 tons per hour.
  - (7) Unit 2 coal transfer house conveyor (#4) with a maximum coal feed belt capacity of 1240 tons per hour.
  - (8) Unit 2 coal transfer house conveyor drop with a maximum coal feed belt capacity of 1240 tons per hour.
  - (9) Unit 2 coal transfer house conveyor with a maximum coal feed belt capacity of 1240 tons per hour.
  - (10) Unit 2 powerhouse coal tripper conveyor bunker drop with a maximum coal feed belt capacity of 1240 tons per hour and with an enclosed powerhouse and sealed transfer points.
  - (11) Unit 2 powerhouse coal tripper conveyor with a maximum coal feed belt capacity of 1240 tons per hour and with an enclosed powerhouse and sealed transfer points.
  - (12) Unit 2 powerhouse coal bunkers with a maximum coal feed belt capacity of 1240 tons per hour and with an enclosed powerhouse and sealed transfer points.
  - (13) Units 2 and 3 coal pile of 645,000 tons.
  - (14) Unit 2 coal pile hopper with a maximum coal feed belt capacity of 640 tons per hour.
  - (15) Unit 2 coal pile hopper conveyor with a maximum coal feed belt capacity of 640 tons per hour.
  - (16) Unit 3 coal pile hopper with a maximum coal feed belt capacity of 640 tons per hour.
  - (17) Unit 3 coal pile hopper conveyor with a maximum coal feed belt capacity of 640 tons per hour.

- (18) Unit 3 coal transfer house conveyor, with a maximum coal feed belt capacity of 640 tons per hour.
- (19) Unit 3 coal transfer house conveyor drop with a maximum coal feed belt capacity of 640 tons per hour with an enclosed transfer house and fabric filter (served by S/V 8).
- (20) Unit 3 powerhouse coal tripper conveyor with a maximum coal feed belt capacity of 640 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (21) Unit 3 powerhouse coal tripper conveyor bunker drop with a maximum coal feed belt capacity of 640 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (22) Unit 3 powerhouse coal bunker with a maximum coal feed belt capacity of 640 tons per hour and with an enclosed powerhouse and sealed transfer points.
- (23) Miscellaneous enclosed coal bunker and weigh-scales with vents.

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

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

#### **D.3.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]**

- (a) Pursuant to 326 IAC 6-3-2, particulate emissions from the:
  - (1) Unit 2 low sulfur coal pile, coal pile hopper, coal hopper conveyor, coal transfer house and conveyor drop shall each not exceed 71.16 pounds per hour when each operating at a process weight rate of 600 tons per hour.
  - (2) Unit 2 coal transfer house conveyor drop, coal transfer house conveyor, coal transfer-crusher house conveyor, coal transfer-crusher house conveyor drop, powerhouse coal tripper conveyor, powerhouse coal tripper conveyor bunker drop, power house coal bunkers shall each not exceed 80.4 pounds per hour when each operating at a process weight rate of 1240 tons per hour.
  - (3) Unit 2 coal pile hopper and coal pile hopper conveyor shall each not exceed 71.95 pounds per hour when each operating at a process weight rate of 640 tons per hour.
  - (4) Unit 3 coal pile, coal pile hopper, coal pile hopper conveyor, coal transfer house conveyor, coal transfer house conveyor drop, powerhouse coal tripper conveyor, powerhouse coal tripper conveyor bunker drop, powerhouse coal bunker and weigh scale shall each not exceed 71.95 pounds per hour when each operating at a process weight rate of 640 tons per hour.
- (b) The pound per hour limitation was calculated with the following equation:

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

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

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

### **Compliance Determination Requirements**

#### **D.3.2 Particulate Control [326 IAC 2-7-6(6)]**

---

- (a) Except as otherwise provided by statute or rule or in this permit, in order to comply with Condition D.3.1 the enclosures and fabric filters for particulate control shall be in place and operate at all times the associated coal handling facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment fabric filters, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

#### **D.3.3 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

- (a) Visible emission notations for all coal storage piles, coal transfer points, and stack exhausts (Nos. 6, 8, & 9) shall be performed once per week during normal daylight operations when transferring coal. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C -Responses to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Responses to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

#### **D.3.4 Fabric Filter Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

The Permittee shall record the pressure drop across the fabric filters exhausting to stack 8 at least once per week. When for any one reading, the pressure drop across the fabric filters is outside the normal range of 3.5 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C-Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.

**D.3.5 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

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

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

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

**D.3.6 Record Keeping Requirements**

---

- (a) To document compliance with Section C - Opacity and Condition D.3.3, the Permittee shall maintain records of the visible emission notations once per week.
- (b) To document compliance with Condition D.3.4, the Permittee shall maintain records of the pressure drop across each fabric filter once per week.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.4 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)] : Fly Ash Handling Facilities

- (d) A fly ash handling facility, identified as Unit 6, constructed in 1994, consisting of the following operations:
- (1) One (1) fly ash storage silo receiving fly ash via a close-pipe vacuum handling system from the electrostatic precipitator and fabric filter hoppers of Units 2 and 3, respectively, with a maximum capacity of 1000 tons, and a maximum throughput of 179.9 tons per hour, with a fabric filter separator exhausting to stack 16 and a bin filter exhausting to stack 17. The filter/separator is designed for operation 50% of the time.
  - (2) One (1) fly ash silo truck loadout station, with a maximum capacity of 25 tons per hour, with an enclosed telescoping discharged chute and emissions reduced by fly ash wetting and partial loading of the trucks.
  - (3) One (1) Ash Pond (East and West) receiving sluiced (closed-pipe) bottom ash from Units 2 and 3. The ash is discharged to the pond at a maximum annual rate of 4.65 tons per hour and stored in wet form, that is, a layer of water maintained above the ponded ash and dredging operations conducted periodically to maintain the ponded storage state.

(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 Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2, the particulate emissions from the fly ash storage silo shall not exceed 57.4 pounds per hour when operating at a process weight rate of 179.9 tons per hour.

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

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

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

- (b) Pursuant to 326 IAC 6-3-2, the particulate emissions from the fly ash silo truck loadout station shall not exceed 35.4 pounds per hour when operating at a process weight rate of 25 tons per hour.

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

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

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

- (c) When the process weight rate exceeds two hundred (200) tons per hour, the allowable emission may exceed the pounds per hour limitation calculated using the above equation,

provided the concentration of particulate in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

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

#### **D.4.2 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

- (a) Visible emission notations of the Ash Pond and fly ash silo truck loadout station shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations of the exhaust from all fly ash transfer points shall be performed once per day during normal daylight when transferring the respective material. A trained employee shall record whether emissions are normal or abnormal.
- (c) If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (d) If abnormal visible emissions of ash are observed from the ash storage pond area and fly ash silo truck loadout station, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of visible emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (e) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (f) 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.
- (g) 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.4.3 Record Keeping Requirements**

---

- (a) To document compliance with Section C - Opacity and Condition D.4.2, the Permittee shall maintain records of the once per day visible emission notations of the fly ash and bottom ash storage pond areas, temporary stockpiles and transfer points.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**SECTION D.5**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)] : Gypsum and Limestone Handling Facilities**

- (e) A limestone handling facility, identified as Unit 7, constructed in 1994, consisting of the following operations:
- (1) One (1) limestone unloading floating clamshell dock, with a maximum capacity of 750 tons per hour, with a fabric filter for dust control, exhausting to stack 6. (This operation serves both coal and limestone unloading operations.)
  - (2) One (1) covered conveyor, identified as Conveyor 1 (CL-1), with a maximum throughput of 550 tons per hour.
  - (3) One (1) limestone truck loadout to conveyor, with a maximum capacity of 750 tons per hour, with a fabric filter for dust control, exhausting to stack 9. (This operation serves both coal and limestone unloading operations.)
  - (4) One (1) covered conveyor, identified as Conveyor 2 (L-1), with a maximum throughput of 800 tons per hour.
  - (5) One (1) limestone storage building, with a maximum capacity of 750 tons per hour, with a fabric filter for dust control, exhausting to stack 10.
  - (6) One (1) limestone reclaim system located inside a totally-enclosed building adjacent to the limestone storage building.
  - (7) One (1) limestone storage building loadout, with a maximum capacity of 750 tons per hour, with an enclosed building for dust control, exhausting indoors.
  - (8) One (1) covered conveyor, identified as Conveyor 3 (L-2), with a maximum throughput of 300 tons per hour.
  - (9) One (1) limestone transfer house (No. 1) with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 12.
  - (10) One (1) covered conveyor, identified as Conveyor 4 (L-3), with a maximum throughput of 300 tons per hour.
  - (11) One (1) coal and limestone transfer house (serving Unit No. 3) with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 8. (This operation serves both coal and limestone transferring operations.)
  - (12) One (1) covered conveyor, identified as Conveyor 5 (L-4), with a maximum throughput of 300 tons per hour.
  - (13) One (1) limestone transfer house (No. 2) with a maximum capacity of 750 tons per hour, a fabric filter for dust control, and exhausting to stack 14.
  - (14) One (1) covered conveyor, identified as Conveyor 6 (L-5), with a maximum throughput of 300 tons per hour.
  - (15) One (1) limestone day silo with a maximum capacity of 750 tons per hour, a fabric filter

for dust control, and exhausting to stack 15.

- (f) A gypsum wet filter cake handling facility, identified as Unit 8, constructed in 1994, consisting of the following operations:
- (1) One (1) gypsum filter cake conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control, exhausting to stack 11.
  - (2) One (1) gypsum filter cake conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control, exhausting to stack 13.
  - (3) One (1) covered conveyor, identified as G-1A, with a maximum capacity of 50 tons per hour.
  - (4) One (1) covered conveyor, identified as G-1B (operates only when G-1A is offline), with a maximum capacity of 50 tons per hour.
  - (5) One (1) gypsum filter cake transfer house conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control, exhausting to stack 4.
  - (6) One (1) covered conveyor, identified as G-2A, with a maximum capacity of 50 tons per hour.
  - (7) One (1) covered conveyor, identified as G-2B (operates only when G-2A is offline), with a maximum capacity of 50 tons per hour.
  - (8) One (1) gypsum storage building consisting of two (2) 1000-ton gypsum storage silos and one (1) storage pile designated for truck haul-away, exhausting indoors.
  - (9) One (1) covered silo to barge loadout primary filter cake transfer conveyor, identified as Conveyor 4, with a maximum capacity of 400 tons per hour, with a fabric filter for dust control, exhausting to stack 7.
  - (10) One (1) covered silo to truck secondary transfer conveyor, identified as Conveyor 3, with a maximum capacity of 400 tons per hour, exhausting indoors.
  - (11) One (1) gypsum barge loadout conveyor drop, with a maximum capacity of 35 tons per hour, with a fabric filter for dust control, exhausting to stack 5.
  - (12) One (1) gypsum barge loadout with two (2) telescoping transfer chutes delivering filter cake gypsum to river barges, with a maximum capacity of 400 tons per hour.

(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 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]**

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

D.5.2 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants [326 IAC 12] [40 CFR 60, Subpart OOO]

---

Pursuant to 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), the limestone (Unit 7) and gypsum (Unit 8) handling operations are subject to the following requirements:

- (1) The Permittee shall not cause to be discharged into the atmosphere:
  - (A) From the following limestone handling facilities: coal & limestone unloading floating dock (S6), Unit 3 coal & limestone transfer house (S8), coal & limestone truck loadout to conveyor (S9), limestone storage building (S10), limestone transfer house #1 (S12), limestone transfer house #2 (S14), limestone daily silo feed (S15); and the following gypsum handling operations: gypsum filter cake transfer conveyor feed (S4), gypsum barge loadout (S5), gypsum unloading onto G5 conveyor (S7), gypsum to G-1A conveyor (S11), gypsum to G-1B conveyor (S13), any stack emissions which:
    - (i) Contain particulate matter that exceeds 0.05 grains per dry standard cubic meter (g/dscm) (0.022 grains per dry standard cubic foot (g/dscf)); and
    - (ii) Exhibit greater than a seven percent (7%) opacity. [40 CFR 60.672(a)]
  - (B) From the limestone and gypsum covered conveyors and gypsum barge loadout, any fugitive emissions which exhibit greater than ten percent (10%) opacity, except as provided in (1)(C), (D), and (E) of this condition. [40 CFR 60.672(b)]
  - (C) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60.672. [40 CFR 60.672(d)]
  - (D) The limestone storage building loadout and gypsum storage building are enclosed; therefore, each enclosed affected facility must comply with the emission limits in (1)(A), (B), and (C) of this condition, or the Permittee shall not cause to be discharged into the atmosphere:
    - (i) From the limestone storage building loadout and gypsum storage building, any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671.
    - (ii) From any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility, emissions which exceed the stack emission limits in (1)(A) of this condition. [40 CFR 60.672(e)]
  - (E) From the fabric filter that controls emissions from the limestone storage building (S10) and the limestone day silo (S15), stack emissions which exhibit greater than seven percent (7%) opacity. Multiple storage bins with combined stack emissions shall comply with the emission limits in (1)(A) of this condition. [40 CFR 60.672(f)]
- (2) When an owner or operator replaces an existing facility with a piece of equipment that is of larger size, as defined in 40 CFR 60.671, having the same function as the existing facility, or an owner or operator replaces all existing facilities in a production line with new facilities, then the replacement is subject to 40 CFR 60.672 (Standard for Particulate

Matter), 40 CFR 60.674 (Monitoring of Operations), 40 CFR 60.675 (Test Methods and Procedures), and 40 CFR 60.676 (Reporting and Recordkeeping) of Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670(d)]

#### D.5.3 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

---

(a) Pursuant to 326 IAC 6-3-2, the particulate emissions from:

- (1) Conveyor 1 (CL-1) shall not exceed 70.1 pounds per hour when operating at a process weight rate of 550 tons per hour.
- (2) Conveyor 2 (L-1) shall not exceed 74.7 pounds per hour when operating at a process weight rate of 800 tons per hour.
- (3) Conveyors 3 (L-2), 4 (L-3), 5 (L-4) and 6 (L-5) shall each not exceed 63.0 pounds per hour when each operating at a process weight rate of 300 tons per hour.

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

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

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

(b) Pursuant to 326 IAC 6-3-2, the particulate emissions from Conveyors G-1A, G-1B, G-2A and G-2B shall each not exceed 56.4 pounds per hour when each operating at a process weight rate of 50 tons per hour.

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

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

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

(c) Pursuant to 326 IAC 6-3-2, the particulate emissions from the gypsum barge loadout shall not exceed 66.3 pounds per hour when operating at a process weight rate of 400 tons per hour.

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

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

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

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

## Compliance Determination Requirements

### D.5.4 NSPS Compliance Provisions [326 IAC 12] [40 CFR 60, Subpart OOO]

---

Compliance with the particulate and opacity emission limitations in Condition D.5.2 shall be determined by the methods and procedures specified in 40 CFR 60.675.

### D.5.5 Particulate Control [326 IAC 2-7-6(6)]

---

- (a) Except as otherwise provided by statute rule or this permit, in order to comply with Condition D.5.2 the fabric filters for particulate control shall be in operation and control emissions at all times the associated facilities are in operation. In order to comply with Condition D.5.3, the conveyors shall remain covered at all times they are in operation.
- (b) In the event that bag failure is observed in a multi-compartment fabric filter, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

### D.5.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

---

- (a) Visible emission notations of the fabric filters and enclosure stack exhausts (S4 through S15) shall be performed once per week during normal daylight operations when the limestone and gypsum handling facilities of Unit 7 and Unit 8 are in operation. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of an abnormal emission that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

### D.5.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

---

- (a) The Permittee shall record the pressure drop across each of the baghouses used in conjunction with the gypsum and limestone handling facilities of Unit 7 and Unit 8 at least once per week when the facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.5 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Responses to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C -

Responses to Excursions or Exceedances, shall be considered a deviation from this permit.

- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.

**D.5.8 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

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

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

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

**D.5.9 Record Keeping Requirements**

---

- (a) To document compliance with Section C - Opacity and Condition D.5.6, the Permittee shall maintain records of the visible emission notations once per week.
- (b) To document compliance with Condition D.5.7, the Permittee shall maintain records of the pressure drop across each fabric filter once per week.
- (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)] : FGD System on Units 2 and 3

- (g) One (1) flue gas desulfurization (FGD) system for Units 2 and 3, constructed in 1994, consisting of the following limestone operations:
- (1) Two (2) wet ball mills (one operational and one full capacity spare), receiving limestone from the day silo of the limestone handling facility (Unit 8). Each ball mill is a closed-device (hard-piped, enclosed design), wet mill capable of handling 20.5 tons per hour of dry limestone feed.
  - (2) Two (2) limestone slurry storage tanks, receiving the ball mill product (fresh limestone slurry), which is then discharged into the scrubber system. The scrubbed gas stream exits the absorber tower through the scrubber stack.

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

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

#### D.6.2 New Source Performance Standard (NSPS): Nonmetallic Mineral Processing Plants [326 IAC 12] [40 CFR 60, Subpart OOO]

Pursuant to 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), the FGD system on Unit 2 is subject to the following requirements:

- (1) The Permittee shall not cause to be discharged into the atmosphere:
  - (A) From the transfer of limestone from the day silo to the ball mills, any fugitive emissions which exhibit greater than ten percent (10%) opacity, except as provided in (1)(B), and (C) of this condition. [40 CFR 60.672(b)]
  - (B) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60.672. [40 CFR 60.672(d)]
  - (C) The wet ball mills are enclosed; therefore, each enclosed affected facility must comply with the emission limits in (1)(A), and (B) of this condition.
- (2) When an owner or operator replaces an existing facility with a piece of equipment that is of larger size, as defined in 40 CFR 60.671, having the same function as the existing facility, or an owner or operator replaces all existing facilities in a production line with new facilities, then the replacement is subject to 40 CFR 60.672 (Standard for Particulate Matter), 40 CFR 60.674 (Monitoring of Operations), 40 CFR 60.675 (Test Methods and Procedures), and 40 CFR 60.676 (Reporting and Recordkeeping) of Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670(d)]

### **Compliance Determination Requirement**

#### **D.6.3 NSPS Compliance Provisions [326 IAC 12] [40 CFR 60, Subpart OOO]**

---

Compliance with the particulate and opacity emission limitations in Condition D.6.2 shall be determined by the methods and procedures specified in 40 CFR 60.675.

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

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

---

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

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

#### **D.6.5 Record Keeping Requirements**

---

- (a) To document compliance with Section C - Opacity and Condition D.6.4, the Permittee shall maintain records of the once per week visible emission notations of the limestone transfer points.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**SECTION D.7 FACILITY OPERATION CONDITIONS**

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

- (a) Vents from ash transport systems not operated at positive pressure [326 IAC 6-3-2].  
(These activities are identified in Section D.4 – Coal Handling Operations.)
- (b) Coal bunker and coal scale exhausts and associated dust collector vents [326 IAC 6-3-2].  
(These activities are identified in Section D.4 – Coal Handling Operations.)

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

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

**D.7.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2, the particulate emissions from vents from ash transport systems not operated at positive pressure and from coal bunker and coal scale exhausts and associated dust collector vents shall be limited by the following:

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

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

**SECTION E**

**TITLE IV CONDITIONS**

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

Entire Source

(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<sub>x</sub> Budget Permit for NO<sub>x</sub> Budget Units Under 326 IAC 10-4-1(a)**

**ORIS Code:** 1012

**NO<sub>x</sub> Budget Source [326 IAC 2-7-5(15)]**

- (a) One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NO<sub>x</sub> burner for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an electrostatic precipitator for control, and low NO<sub>x</sub> burner and selective catalytic reduction technology (SCR) for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

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

This NO<sub>x</sub> 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<sub>x</sub> budget source and each NO<sub>x</sub> budget unit shall operate each unit in compliance with this NO<sub>x</sub> budget permit.
- (b) The NO<sub>x</sub> budget units subject to this NO<sub>x</sub> budget permit are Unit 2 and Unit 3.

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

- (a) The owners and operators and, to the extent applicable, the NO<sub>x</sub> authorized account representative of the NO<sub>x</sub> budget source and each NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> budget source and each NO<sub>x</sub> budget unit at the source shall hold NO<sub>x</sub> allowances available for compliance deductions under 326 IAC 10-4-10(j), as of the NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> budget trading program, or a change in regulatory status of a NO<sub>x</sub> budget opt-in unit.
- (b) Each ton of NO<sub>x</sub> emitted in excess of the NO<sub>x</sub> budget emissions limitation shall constitute a separate violation of the Clean Air Act (CAA) and 326 IAC 10-4.
- (c) Each NO<sub>x</sub> 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<sub>x</sub> allowances shall be held in, deducted from, or transferred among NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> allowance was allocated.
- (f) A NO<sub>x</sub> allowance allocated under the NO<sub>x</sub> budget trading program is a limited authorization to emit one (1) ton of NO<sub>x</sub> in accordance with the NO<sub>x</sub> budget trading program. No provision of the NO<sub>x</sub> budget trading program, the NO<sub>x</sub> budget permit application, the NO<sub>x</sub> 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<sub>x</sub> allowance allocated under the NO<sub>x</sub> 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<sub>x</sub> allowance to or from each NO<sub>x</sub> 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<sub>x</sub> budget permit of the NO<sub>x</sub> 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<sub>x</sub> budget unit that has excess emissions in any ozone control period shall do the following:

- (a) Surrender the NO<sub>x</sub> 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<sub>x</sub> budget source and each NO<sub>x</sub> 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<sub>x</sub> authorized account representative for the source and each NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> budget trading program.
- (d) Copies of all documents used to complete a NO<sub>x</sub> budget permit application and any other submission under the NO<sub>x</sub> budget trading program or to demonstrate compliance with the requirements of the NO<sub>x</sub> budget trading program.

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

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

---

- (a) The NO<sub>x</sub> authorized account representative of the NO<sub>x</sub> budget source and each NO<sub>x</sub> budget unit at the source shall submit the reports and compliance certifications required under the NO<sub>x</sub> 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<sub>x</sub> authorized account representative: "I am authorized to make this submission on behalf of the owners and operators of the NO<sub>x</sub> budget sources or NO<sub>x</sub> 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<sub>x</sub> authorized account representative shall submit required information to:

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

- (d) Where 326 IAC 10-4 requires a submission to U.S. EPA, the NO<sub>x</sub> 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<sub>x</sub> budget source shall be liable as follows:

- (a) Any person who knowingly violates any requirement or prohibition of the NO<sub>x</sub> budget trading program, a NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> budget trading program that occurs prior to the date that the revision takes effect.
- (d) Each NO<sub>x</sub> budget source and each NO<sub>x</sub> budget unit shall meet the requirements of the NO<sub>x</sub> budget trading program.
- (e) Any provision of the NO<sub>x</sub> budget trading program that applies to a NO<sub>x</sub> budget source, including a provision applicable to the NO<sub>x</sub> authorized account representative of a NO<sub>x</sub> budget source, shall also apply to the owners and operators of the source and of the NO<sub>x</sub> budget units at the source.
- (f) Any provision of the NO<sub>x</sub> budget trading program that applies to a NO<sub>x</sub> budget unit, including a provision applicable to the NO<sub>x</sub> authorized account representative of a NO<sub>x</sub> 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<sub>x</sub> authorized account representative of one (1) NO<sub>x</sub> budget unit shall not be liable for any violation by any other NO<sub>x</sub> budget unit of which they are not owners or operators or the NO<sub>x</sub> authorized account representative and that is located at a source of which they are not owners or operators or the NO<sub>x</sub> authorized account representative.

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

---

No provision of the NO<sub>x</sub> budget trading program, a NO<sub>x</sub> budget permit application, a NO<sub>x</sub> 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<sub>x</sub> authorized account representative of a NO<sub>x</sub> budget source or NO<sub>x</sub> budget unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the CAA.

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

**ORIS Code:** 1012

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

- (a) One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NO<sub>x</sub> burner for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using a fabric filter for PM emission control, and low NO<sub>x</sub> burner and selective catalytic reduction technology (SCR) for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

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

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

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

- (a) The owners and operators of the CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall operate each unit in compliance with this CAIR permit.
- (b) The CAIR NO<sub>x</sub> unit(s), CAIR SO<sub>2</sub> unit(s), and CAIR NO<sub>x</sub> ozone season unit(s) subject to this CAIR permit are Unit 2 and unit 3.

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

- (a) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source shall comply with the monitoring, reporting, and record keeping requirements of 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.
- (b) The emissions measurements recorded and reported in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 shall be used to determine compliance by each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source with the CAIR NO<sub>x</sub> emissions limitation under 326 IAC 24-1-4(c), CAIR SO<sub>2</sub> emissions limitation under 326 IAC 24-2-4(c), and CAIR NO<sub>x</sub> ozone season emissions limitation under 326 IAC 24-3-4(c) and Condition G.4.1, Nitrogen Oxides Emission Requirements, Condition G.4.2, Sulfur Dioxide Emission Requirements, and Condition G.4.3, Nitrogen Oxides Ozone Season Emission Requirements.

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

- (a) As of the allowance transfer deadline, the owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> allowances available for compliance deductions for the control period under 326 IAC 24-1-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO<sub>x</sub> units at the source, as determined in accordance with 326 IAC 24-1-11
- (b) A CAIR NO<sub>x</sub> unit shall be subject to the requirements under (a) above and 326 IAC 24-1-4(c)(1) starting on the deadline for meeting the unit's monitor certifications requirements under 326 IAC 24-1-11(C)(1), 11(c)(2), or 11(c)(5) and for each control period thereafter.
- (c) A CAIR NO<sub>x</sub> allowance shall not be deducted for compliance with the requirements under (a) above and 326 IAC 24-1-4(c)(1), for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated.
- (d) CAIR NO<sub>x</sub> allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> allowance tracking system accounts in accordance with 326 IAC 24-1-9, 326 IAC 24-1-10, and 326 IAC 24-1-12.
- (e) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> annual trading program. No provision of the CAIR NO<sub>x</sub> annual trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-1-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.
- (f) A CAIR NO<sub>x</sub> allowance does not constitute a property right.
- (g) Upon recordation by the U.S. EPA under 326 IAC 24-1-8, 326 IAC 24-1-9, 326 IAC 24-1-10, or 326 IAC 24-1-12, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> source's compliance account is incorporated automatically in this CAIR permit.

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

- (a) As of the allowance transfer deadline, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO<sub>2</sub> allowances available for compliance deductions under for the control period under 326 IAC 24-2-8(j) and 326 IAC 24-2-8(k) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with 326 IAC 24-2-10.
- (b) A CAIR SO<sub>2</sub> unit shall be subject to the requirements under (a) above and 326 IAC 24-2-4(c)(1) starting on the deadline for meeting the unit's monitor certifications requirements under 326 IAC 24-2-10(C)(1), 10(c)(2), or 10(c)(5) and for each control period thereafter.
- (c) A CAIR SO<sub>2</sub> allowance shall not be deducted for compliance with the requirements under (a) above and 326 IAC 24-2-4(c)(1), for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated.
- (d) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> allowance tracking system accounts in accordance with 326 IAC 24-2-8, 326 IAC 24-2-9, and 326 IAC 24-2-11.

- (e) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> trading program. No provision of the CAIR SO<sub>2</sub> trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-2-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.
- (f) A CAIR SO<sub>2</sub> allowance does not constitute a property right.
- (g) Upon recordation by the U.S. EPA under 326 IAC 24-2-8, 326 IAC 24-2-9, or 326 IAC 24-2-11, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> source's compliance account is incorporated automatically in this CAIR permit.

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

- (a) As of the allowance transfer deadline, the owners and operators of the each CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> ozone season unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> ozone season allowances available for compliance deductions under for the control period under 326 IAC 24-3-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO<sub>x</sub> ozone season units at the source, as determined in accordance with 326 IAC 24-3-11.
- (b) A CAIR NO<sub>x</sub> unit shall be subject to the requirements under (a) above and 326 IAC 24-3-4(c)(1) starting on the deadline for meeting the unit's monitor certifications requirements under 326 IAC 24-3-11(C)(1), 11(c)(2), 11(c)(3), or 11(c)(7) and for each control period thereafter.
- (c) A CAIR NO<sub>x</sub> ozone season allowance shall not be deducted for compliance with the requirements under (a) above and 326 IAC 24-3-4(c)(1), for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> ozone season allowance was allocated.
- (d) CAIR NO<sub>x</sub> ozone season allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> ozone season allowance tracking system accounts in accordance with 326 IAC 24-3-9, 326 IAC 24-3-10, and 326 IAC 24-3-12.
- (e) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> ozone season trading program. No provision of the CAIR NO<sub>x</sub> ozone season trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-3-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.
- (f) A CAIR NO<sub>x</sub> allowance does not constitute a property right.
- (g) Upon recordation by the U.S. EPA under 326 IAC 24-3-8, 326 IAC 24-3-9, 326 IAC 24-3-10, or 326 IAC 24-3-12, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> ozone season allowance to or from a CAIR NO<sub>x</sub> ozone season source's compliance account is incorporated automatically in this CAIR permit.

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

- (a) The owners and operators of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit that emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation shall do the following:

- (1) Surrender the CAIR NO<sub>x</sub> allowances required for deduction under 326 IAC 24-1-9(j)(4).
- (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

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

- (b) The owners and operators of a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit that emits sulfur dioxide during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation shall do the following:

- (1) Surrender the CAIR SO<sub>2</sub> allowances required for deduction under 326 IAC 24-2-8(k)(4).
- (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

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

- (c) The owners and operators of a CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> ozone season unit that emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> ozone season emissions limitation shall do the following:

- (1) Surrender the CAIR NO<sub>x</sub> ozone season allowances required for deduction under 326 IAC 24-3-9(j)(4).
- (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

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

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

---

Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source shall keep on site at the source or at a central location within Indiana for those owners or operators with unattended sources, each of the following documents for a period of five (5) years from the date the document was created:

- (a) The certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), 326 IAC 24-3-6(h) for the CAIR designated representative for the source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation. The certificate and documents shall be retained on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond such five (5) year period until such documents are superseded because of the submission of a new account certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), 326 IAC 24-3-6(h) changing the CAIR designated representative.

- (b) All emissions monitoring information, in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11, provided that to the extent that 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 provides for a three (3) year period for record keeping, the three (3) year period shall apply.
- (c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program.
- (d) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program.

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

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

---

- (a) The CAIR designated representative of the CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program, including those under 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.
- (b) Pursuant to 326 IAC 24-1-4(e), 326 IAC 24-2-4(e), and 326 IAC 24-3-4(e) and 326 IAC 24-1-6(e)(1), 326 IAC 24-2-6(e)(1), and 326 IAC 24-3-6(e)(1), each submission under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (c) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to IDEM, OAQ, the CAIR designated representative shall submit required information to:
  - Indiana Department of Environmental Management
  - Office of Air Quality
  - 100 North Senate Avenue
  - MC 61-53, IGCN 1003
  - Indianapolis, Indiana 46204-2251
- (d) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to U.S. EPA, the CAIR designated representative shall submit required information to:

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

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

---

The owners and operators of each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall be liable as follows:

- (a) Each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall meet the requirements of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program.
- (b) Any provision of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program that applies to a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source or the CAIR designated representative of a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source
- (c) Any provision of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program that applies to a CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall also apply to the owners and operators of such unit.

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

---

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

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

Source Name: Southern Indiana Gas and Electric Company (SIGECO)  
F.B. Culley Generating Station  
Source Address: 3711 Darlington Road, Newburgh, Indiana 47630  
Mailing Address: P.O Box 209, Evansville, IN 47702  
Part 70 Permit No.: T 173-6885-00001

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Southern Indiana Gas and Electric Company (SIGECO)  
F.B. Culley Generating Station  
Source Address: 3711 Darlington Road, Newburgh, Indiana 47630  
Mailing Address: P.O Box 209, Evansville, IN 47702  
Part 70 Permit No.: T 173-6885-00001

**This form consists of 2 pages**

**Page 1 of 2**

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

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

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

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

**Page 2 of 2**

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

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION  
 PART 70 OPERATING PERMIT  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Southern Indiana Gas and Electric Company (SIGECO)  
 F.B. Culley Generating Station  
 Source Address: 3711 Darlington Road, Newburgh, Indiana 47630  
 Mailing Address: P.O Box 209, Evansville, IN 47702  
 Part 70 Permit No.: T 173-6885-00001

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

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

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

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

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

**Source Description and Location**

Source Name:	Southern Indiana Gas and Electric Company (SIGECO) F.B. Culley Generating Station
Source Location:	3711 Darlington Road, Newburgh, Indiana 47630
County:	Warrick
SIC Code:	4911
Operation Permit No.:	T 173-6885-00001
Operation Permit Issuance Date:	April 18, 2006
Significant Permit Modification No.:	T 173-27288-00001
Permit Reviewer:	Joe Sachse

**Existing Approvals**

The source was issued Part 70 Operating Permit No. 173-6885-00001 on April 18, 2006. The source has since received the following approvals:

- (a) Acid Rain Renewal No. 173-19027-00001 issued on May 3, 2006;
- (b) Administrative Amendment No. 173-26843-00001, issued on September 5, 2008; and
- (c) Significant Permit Modification No. T173-26323-00001, issued on April 17, 2009.

**County Attainment Status**

The source is located in Warrick County.

Pollutant	Designation
SO <sub>2</sub>	Cannot be classified.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective January 30, 2006, for the Evansville area, including Warrick County, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM <sub>2.5</sub> .	

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Warrick County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Warrick as nonattainment for PM<sub>2.5</sub>. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM<sub>2.5</sub> promulgated on May 8<sup>th</sup>, 2008, and effective on July 15<sup>th</sup> 2008. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**  
 Warrick County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) **Fugitive Emissions**  
 Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

<b>Source Status</b>
----------------------

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

<b>Pollutant</b>	<b>Emissions (ton/yr)</b>
PM	>250
PM <sub>10</sub>	>250
PM <sub>2.5</sub>	>250
SO <sub>2</sub>	>250
VOC	<100
CO	>250
NO <sub>x</sub>	>250

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major stationary source, under Nonattainment New Source Review (326 IAC 2-1.1-5), because direct PM<sub>2.5</sub> and nonattainment regulated pollutants are emitted at a rate of 100 tons per year or more.

- (c) These emissions are based upon T 173-6885-0001, issued on April 18, 2006.

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

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

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

#### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Southern Indiana Gas and Electric Company (SIGECO) F.B. Culley Generating Station on December 23, 2008, relating to the removal of the Unit 1 Boiler and the incorporation of Part 70 Operating Permit changes according to the Joint Stipulation of Stay Agreement pending in the Indiana Office of Environmental Adjudication under Cause 06-A-J-3719.

#### Enforcement Issues

There are no pending enforcement actions.

#### Permit Level Determination – Part 70

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

There is no increase in the potential to emit of any regulated pollutants since the source is not adding new emission units.

This modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because the modification requires significant changes in existing monitoring Part 70 permit terms and conditions.

#### Federal Rule Applicability Determination

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in this proposed modification.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this proposed modification.

**State Rule Applicability Determination**

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

**326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements)**

This modification to an existing major stationary source is not major because there is no emission increase. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

**326 IAC 2-1.1-5 (Nonattainment New Source Review)**

This modification to an existing major stationary source is not major because there are no emission increases from this modification. Therefore, pursuant to 326 IAC 2-3, the Nonattainment New Source Review requirements do not apply.

**Compliance Determination and Monitoring Requirements**

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

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

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
Fabric Filter for Unit 3	Water Pressure Drop	Daily	3.5 to 8.0 inches	Response Steps
	Visible Emissions		Normal-Abnormal	

**Proposed Changes**

The changes listed below have been made to Part 70 Operating Permit No. T173-6885-00001. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

- Change 1:** Unit No. 1 permanently ceased operation and was removed from service as of December 31, 2006. Although Unit 1 has been shutdown, its allowances under the Acid Rain and NOx budget trading programs are still active. Consequently, references to Unit 1 have been removed from Sections A and D, and Sections E and F have been revised. Sections D.2 through D.8 have been renumbered and the Table of Contents has been updated.

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

---

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

- ~~(a)~~ One (1) coal/natural gas fired boiler, identified as Unit 1, constructed in 1952, with a maximum capacity of 477 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 1. Unit 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- ~~(b)~~**(a)** One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NO<sub>x</sub> burner for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- ~~(c)~~**(b)** One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an electrostatic precipitator for control, and low NO<sub>x</sub> burner and selective catalytic reduction technology (SCR) for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- ~~(d)~~**(c)** Coal storage and handling operations, identified as Unit 5F, constructed in 1954, expanded in 1963 and 1970, and modified in 1994, consisting of the following activities:  
...  
~~(e)~~**(d)** A fly ash handling facility, identified as Unit 6, constructed in 1994, consisting of the following operations:  
...  
**(3)** One (1) East Ash Pond receiving sluiced (closed-pipe) bottom ash from Units 4, 2 and 3 and sluiced fly ash from Unit 4. The ash is discharged to the pond at a maximum annual rate of 4.65 tons per hour and stored in wet form, that is, a layer of water maintained above the ponded ash and dredging operations conducted periodically to maintain the ponded storage state.
- ~~(f)~~**(e)** A limestone handling facility, identified as Unit 7, constructed in 1994, consisting of the following operations:  
...  
~~(g)~~**(f)** A gypsum wet filter cake handling facility, identified as Unit 8, constructed in 1994, consisting of the following operations:  
...  
~~(h)~~**(g)** One (1) flue gas desulfurization (FGD) system for Units 2 and 3, constructed in 1994, consisting of the following limestone operations:

...

SECTION D.1 FACILITY OPERATION CONDITIONS

**Facility Description [326 IAC 2-7-5(15)] : Unit 1**

- (a) One (1) coal/natural gas fired boiler, identified as Unit 1, constructed in 1952, with a maximum capacity of 477 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 1. Unit 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

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

~~D.1.1 Consent Decree~~

~~Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003:~~

- (a) ~~By no later than December 31, 2004, SIGECO shall elect and notify the IDEM, OAQ and EPA of its decision to either re-power the Unit 1 from a coal fired to a natural gas fired unit, or retire and permanently cease to operate Unit 1. By no later than December 31, 2006, SIGECO shall either complete the re-power of Unit 1 from a coal fired to a natural gas fired unit and satisfy the NO<sub>x</sub> emission control requirements, or retire and permanently cease to operate Unit 1.~~
- (b) ~~If SIGECO elects to re-power Unit 1 with a new combined cycle system, SIGECO shall install and commence continuous operation of SCR technology so as to achieve a 30-Day Rolling Average Emission Rate not greater than 3.5 ppm NO<sub>x</sub> by no later than December 31, 2006.~~
- (c) ~~If SIGECO elects to re-power Unit 1 using the existing boiler system, SIGECO shall install and commence continuous operation of SCR technology so as to achieve a BACT-level emission rate for NO<sub>x</sub> as determined by the State permitting process by no later than December 31, 2006.~~

~~D.1.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-3]~~

~~Pursuant to 326 IAC 6-2-3(b), the particulate matter (PM) emissions from Unit 1 shall not exceed 0.65 pounds per MMBtu heat input.~~

~~D.1.3 Startup, Shutdown and Other Opacity Limits [326 IAC 5-1-3]~~

- (a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies to Unit 1:
- (1) When building a new fire in a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of two (2) hours (twenty (20) six (6)-minute-averaged-periods) during the start-up period, or until the flue gas temperature entering the electrostatic precipitator reaches two hundred and fifty (250) degrees Fahrenheit at the inlet of the electrostatic precipitator, which ever occurs first.

- ~~(2) — When shutting down a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of two (2) hours (twenty (20) six (6)-minute averaging periods) during the shutdown period.~~
- ~~(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 period in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]~~
- ~~(c) — If a facility cannot meet the opacity limitations in (a) and (b) of this condition, the Permittee may submit a written request to IDEM, OAQ, 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.1.4 — Warrick County Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4-10]~~

---

- ~~(a) — Pursuant to 326 IAC 7-4-10, the sulfur dioxide (SO<sub>2</sub>) emissions from Unit 1 shall not exceed 2.79 pounds per MMBtu as specified in 326 IAC 7-4-10(a)(1). When the Permittee elects to comply with the alternative Unit 2 SO<sub>2</sub> limit in Condition D.2.4 (4.4 pounds per MMBtu), then the SO<sub>2</sub> emissions from Unit 1 shall not exceed 0.0006 pounds per MMBtu as specified in 326 IAC 7-4-10(a)(1)(B).~~
- ~~(b) — Pursuant to 326 IAC 7-4-10(a)(1)(C), SIGECO shall notify IDEM, OAQ and the U.S. EPA via certified mail at least fourteen (14) days prior to its intention to rely on the alternative SO<sub>2</sub> limit (0.0006 pounds per MMBtu), or to switch between the primary limit (2.79 pounds per MMBtu) and the alternative SO<sub>2</sub> limit (0.0006 pounds per MMBtu).~~

Compliance Determination Requirements

~~D.1.5 — Particulate Control [326 IAC 2-7-6(6)]~~

---

- ~~(a) — In order to comply with Condition D.1.2, the Permittee shall operate the electrostatic precipitator (ESP) at all times (except as otherwise specified in this permit) Unit 1 is in operation.~~
- ~~(b) — Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall operate the electrostatic precipitators (ESP) at all times Unit 1 is combusting coal to maximize PM emission reductions, consistent with the operational and maintenance limitations of the unit.~~

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

---

~~In order to demonstrate compliance with Condition D.1.2, the Permittee shall perform PM testing for Unit 1 no later than July 16, 2005. This test shall be repeated at least once every two and a half (2.5) years following this valid compliance demonstration. Testing shall be conducted utilizing methods approved by the Commissioner and in accordance with Section C – Performance Testing.~~

~~D.1.7 — Continuous Emission Monitoring [326 IAC 3-5] [40 CFR Part 75]~~

---

- ~~(a) — Pursuant to 326 IAC 3-5-1 and 40 CFR Part 75, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring~~

~~SO<sub>2</sub>, NO<sub>x</sub> and CO<sub>2</sub> emissions from Unit 1. Each CEMS must meet all applicable performance specifications of 326 IAC 3-5-2 and 40 CFR Part 75. The data from the respective CEMS shall be used to determine compliance with Condition D.1.9.~~

- ~~(b) The CEMS must operate and record data during all periods of operation of the affected facilities including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.~~
- ~~(c) All CEMS are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.~~
- ~~(d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a CEMS pursuant to 326 IAC 3-5 and/or 40 CFR Part 75.~~

~~D.1.8 Continuous Opacity Monitoring [326 IAC 3-5][40 CFR Part 75]~~

---

- ~~(a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), and 326 IAC 2, a continuous monitoring system shall be installed, calibrated, maintained, and operated to measure the opacity of the exhaust from Unit 1. The continuous opacity monitoring systems (COMS) shall meet the performance specifications of 326 IAC 3-5-2.~~
- ~~(b) The COMS must operate and record data during all periods of operation of the affected facilities including periods of startup, shutdown, malfunction or emergency conditions, except for COMS breakdowns, repairs, calibration checks, and zero and span adjustments.~~
- ~~(c) All COMS are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.~~
- ~~(d) In instances of COMS downtime, the source shall follow the procedures in accordance with Section C – Maintenance of Continuous Opacity Monitoring Equipment, until such time that the COMS is back in operation.~~
- ~~(e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a COMS pursuant to 326 IAC 3-5 and/or 40 CFR Part 75.~~

~~D.1.9 Sulfur Dioxide Emissions [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2] [326 IAC 7-4-10]~~

---

~~Pursuant to 326 IAC 7-2-1(a) and (c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the applicable limits in Condition D.1.4. Compliance with these limits shall be determined using SO<sub>2</sub> CEMS data and demonstrated using a thirty (30) day rolling weighted average.~~

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

~~D.1.10 Electrostatic Precipitator (ESP) Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

---

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

~~–Response to Excursions or Exceedances, shall be considered a deviation from this permit.~~

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

---

- ~~(a) In the event of opacity from Unit 1 exceeding thirty five percent (35%) average opacity for three (3) consecutive six (6) minute averaging periods, appropriate response steps shall be taken in accordance with Section C – Response to Excursions or Exceedances such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below thirty five percent (35%). 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 five percent (35%) but not exceeding the opacity limit for Unit 1 are not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.~~
- ~~(c) The Permittee may request that the IDEM, OAQ approve a different opacity trigger level than the one specified in (a) and (b) of this condition, provided the Permittee can demonstrate, through stack testing or other appropriate means, that a different opacity trigger level is appropriate for monitoring compliance with the applicable particulate matter mass emission limits.~~

~~D.1.12 SO<sub>2</sub> Monitoring System Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]~~

---

~~Whenever the SO<sub>2</sub> continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments, the following shall be used to provide information related to SO<sub>2</sub> emissions:~~

- ~~(a) If the CEMS is down for less than twenty four (24) hours, the Permittee shall substitute an average of the quality-assured data from the hour immediately before and the hour immediately after the missing data period for each hour of missing data.~~
- ~~(b) If the CEMS is down for twenty four (24) hours or more, fuel sampling shall be conducted as specified in 326 IAC 3-7-2(a) or (b). Fuel sample preparation and analysis shall be conducted as specified in 326 IAC 3-7-2(c), 326 IAC 3-7-2(d), and 326 IAC 3-7-2(e). Pursuant to 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring.~~

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

~~D.1.13 Record Keeping Requirements~~

---

- ~~(a) To document compliance with Section C – Opacity and Conditions D.1.2, D.1.3, D.1.10, and D.1.11, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C – Opacity and in Conditions D.1.2 and D.1.3.~~
  - ~~(1) Data and results from the most recent stack test.~~
  - ~~(2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5-6.~~
  - ~~(3) The results of all Method 9 visible emission readings taken during any periods of GOMS downtime.~~

- ~~(4) — All ESP parametric monitoring readings.~~
- ~~(b) — To document compliance with Conditions D.1.4, D.1.9 and D.1.12, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the SO<sub>2</sub> limits as required in Conditions D.1.4 and D.1.9. The Permittee shall maintain records in accordance with (2) and (3) below during SO<sub>2</sub> CEM system downtime.~~
- ~~(1) — All SO<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6, 326 IAC 7-2-1(g).~~
- ~~(2) — All fuel sampling and analysis data collected for SO<sub>2</sub> CEM downtime, in accordance with Condition D.1.12.~~
- ~~(3) — Actual fuel usage during each SO<sub>2</sub> CEM downtime.~~
- ~~(c) — To document compliance with Condition D.1.7, the Permittee shall maintain records of all NO<sub>x</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6. Records shall be complete and sufficient to establish compliance with the NO<sub>x</sub> limit as required in Condition D.1.7.~~
- ~~(d) — 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.~~
- ~~(e) — All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.~~

#### D.1.14 Reporting Requirements

- ~~(a) — A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Conditions D.1.7 and D.1.8 shall be submitted to the address listed in Section C – General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).~~
- ~~(b) — Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:~~
- ~~(1) — Date of downtime.~~
- ~~(2) — Time of commencement.~~
- ~~(3) — Duration of each downtime.~~
- ~~(4) — Reasons for each downtime.~~
- ~~(5) — Nature of system repairs and adjustments.~~

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

~~D.1.15 Requirement to Submit a Significant Source and Permit Modification Application [326 IAC 2-7-12]  
[326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant source modification and significant permit modification to IDEM, OAQ to incorporate planned changes to Unit 1 as directed by Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003. The modification application(s) shall be consistent with 326 IAC 2-7-10.5 and 326 IAC 2-7-12 and include information sufficient for IDEM, OAQ to incorporate into the Title V permit the appropriate requirements for Unit 1. The modification application(s) shall be submitted to:~~

~~Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2254~~

...

SECTION E

TITLE IV CONDITIONS

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

- (a) ~~One (1) coal/natural gas fired boiler, identified as Unit 1, constructed in 1952, with a maximum capacity of 477 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 1. Unit 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).~~
- (b) ~~One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NOx burner for NOx reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).~~
- (c) ~~One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an electrostatic precipitator for control, and low NOx burner and selective catalytic reduction technology (SCR) for NOx reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).~~

**Entire Source**

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

...

SECTION F Nitrogen Oxides Budget Trading Program - NO<sub>x</sub> Budget Permit for NO<sub>x</sub> Budget Units  
Under 326 IAC 10-4-1(a)

ORIS Code: 1012

<p>NO<sub>x</sub> Budget Source [326 IAC 2-7-5(15)]</p> <p>(a) <del>One (1) coal/natural gas fired boiler, identified as Unit 1, constructed in 1952, with a maximum capacity of 477 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 1. Unit 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).</del></p> <p>(b) (a) One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NO<sub>x</sub> burner for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).</p> <p>(c) (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an electrostatic precipitator for control, and low NO<sub>x</sub> burner and selective catalytic reduction technology (SCR) for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).</p> <p>(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)</p>
--

...

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

- (a) The owners and operators of the NO<sub>x</sub> budget source and each NO<sub>x</sub> budget unit shall operate each unit in compliance with this NO<sub>x</sub> budget permit.
- (b) The NO<sub>x</sub> budget units subject to this NO<sub>x</sub> budget permit are ~~Unit 1~~, Unit 2, and Unit 3.

**Change 2:** The following changes have been made to resolve discrepancies between the current air permit and Consent Decree Civil Action No. IP99-1692-C-M/F, and to incorporate changes according to the Joint Stipulation of Stay Agreement pending in the Indiana Office of Environmental Adjudication under Cause 06-A-J-3719.

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

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

...

- (c)(b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an ~~electrostatic precipitator~~ **fabric filter** for **PM emission** control, and low NO<sub>x</sub> burner and selective catalytic reduction technology (SCR) for NO<sub>x</sub> reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

...

## SECTION D.3.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)] : Unit 3

- (e) (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an ~~electrostatic precipitator~~ **fabric filter** for **PM emission** control, and low NOx burner and selective catalytic reduction technology (SCR) for NOx reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

...

### D.3.3 2.3 Startup, Shutdown and Other Opacity Limits [326 IAC 5-1-3]

- (a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies to Unit 3:
- (1) When building a new fire in a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of one (1) hour (ten (10) six (6)-minute averaging periods) during the startup period, or until the flue gas temperature reaches two hundred and fifty (250) degrees Fahrenheit at the inlet of the electrostatic precipitator, whichever occurs first.
  - (2) When shutting down a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of one half (0.5) hour (five (5) six (6)-minute averaging periods) during the shutdown period.
  - (3) ~~Operation of the electrostatic precipitator is not required during these times.~~

...

## Compliance Determination Requirements

### D.3.5 2.5 SO<sub>2</sub> Control [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) In order to comply with Condition D.3.42.4, the Permittee shall continuously operate the FGD scrubber at all times Unit 3 is in operation (except as otherwise specified in this permit or when firing only natural gas).
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall continuously operate the FGD at all times that the Unit 3 is in operation, except in the event of a planned FGD outage. Following startup of coal, the Permittee does not need to operate the FGD until the unit is fired with coal.

### D.3.6 D.2.6 Particulate Control

- (a) In order to demonstrate compliance with Condition D.3.22.2, the Permittee shall operate the ~~electrostatic precipitator (ESP)~~ **fabric filter** at all times (except as otherwise specified in this permit) Unit 3 is in operation.

- ~~(b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall operate the electrostatic precipitators (ESP) at all times Unit 3 is combusting coal to maximize PM emission reductions, consistent with the operational and maintenance limitations of the unit.~~

...

D.3.10-2.10 Continuous Emission Monitoring [326 IAC 3-5][40 CFR Part 75]

- (a) Pursuant to 326 IAC 3-5-1, and 40 CFR Part 75, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring SO<sub>2</sub>, NO<sub>x</sub>, and CO<sub>2</sub> emissions from Unit 3. Each CEMS must meet all applicable performance specifications of 326 IAC 3-5-2, and 40 CFR Part 75. The data from the respective CEMS will be used to determine compliance with Conditions ~~D.3.1, D.3.4~~ **D.2.1, D.2.4** and ~~D.3.12~~ **D.2.12**.
- (b) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee must calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring SO<sub>2</sub> emission rate at the inlet to the scrubber. The data from the inlet CEMS and outlet CEMS of (a) above shall be used to determine compliance with Condition ~~D.3.1(b)~~ **2.1(b)**.

...

D.3.12 2.12 Sulfur Dioxide Emissions [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2]

- (a) Pursuant to 326 IAC 7-2-1(a) and (c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the applicable limits in Condition ~~D.3.4~~ **2.4**. Compliance with these limits shall be determined using SO<sub>2</sub> CEMS data and demonstrated using a thirty (30) day rolling weighted average.
- (b) In order to comply with Condition ~~D.3.1~~ **2.1**, the Permittee shall demonstrate that the FGD scrubber operates with the minimum sulfur dioxide (SO<sub>2</sub>) removal efficiency required by Condition ~~D.3.4~~ **2.1**.
- (1) Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the inlet SO<sub>2</sub> emission rate shall be determined in accordance with 40 CFR 75.15, using CEMS data from the inlet to the scrubber.
- (2) The continuous emission monitoring (CEM) data (Condition ~~D.3.10~~ **2.10**) shall be used to determine the SO<sub>2</sub> emissions following the scrubber.
- (3) A comparison of the data from (1) and (2) above shall be used to determine the efficiency of the FGD scrubber.

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

~~D.3.13 Electrostatic Precipitator (ESP) Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

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

...

### **D.2.13 Parametric Monitoring**

---

- (a) **The Permittee shall record the pressure drop across each of the fabric filter used in conjunction with Unit 3 at least once per day when the facilities are in operation. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 3.5 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.**
- (b) **The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.**

### **D.2.14 Broken or Failed Bag Detection**

---

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

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

...

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

### **~~D.3.15~~ D.2.16 Record Keeping Requirements**

---

- (a) **To document compliance with Section C - Opacity and Conditions ~~D.3.3, D.3.9 and D.3.13~~ **D.2.3 and D.2.9**, 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 Condition ~~D.3.3~~ **D.2.3**.**
  - (1) Data and results from the most recent stack test.
  - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5-6.
  - (3) The results of all Method 9 visible emission readings taken during any periods of COMS downtime.
  - (4) ~~All ESP parametric monitoring readings.~~
- (b) **To document compliance with Conditions ~~D.3.1, D.3.4, D.3.6, D.3.12 and D.3.14~~ **D.2.1, D.2.4, D.2.12, and D.2.16** the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the SO<sub>2</sub> limits as required in Conditions ~~D.3.3, D.3.4, and D.3.12~~ **D.2.5, D.2.4, and D.2.12**. The Permittee shall maintain records in accordance with (2) and (3) below during**

SO<sub>2</sub> CEM system downtime.

- (1) All SO<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6, 326 IAC 7-2-1(g).
  - (2) Boiler load, recirculation pH, slurry feed rate and number of re-circulation pumps in service during SO<sub>2</sub> CEM downtime, in accordance with Condition ~~D.3.14~~ **2.15**.
  - (3) Actual fuel usage during each SO<sub>2</sub> CEM downtime.
- (c) To document compliance with Conditions ~~D.3.1 and D.3.10~~ **D.2.1 and D.2.10** the Permittee shall maintain records of all NO<sub>x</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6. Records shall be complete and sufficient to establish compliance with the NO<sub>x</sub> limits as required in Conditions ~~D.3.1 and D.3.10~~ **D.2.1 and D.2.10**.
- (d) **To document compliance with Condition D.2.14, the Permittee shall maintain daily records of the pressure drop across the fabric filter. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).**
- ~~(d)~~(e) 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.
- ~~(e)~~(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

~~D.3.16~~ **D.2.17** Reporting Requirements

---

- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Conditions ~~D.3.10~~ **2.10** and ~~D.3.14~~ **2.11** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

ORIS Code: 1012

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

- (b) (a) One (1) coal/natural gas fired boiler, identified as Unit 2, constructed in 1963, with a maximum capacity of 1031 MMBtu per hour, using an electrostatic precipitator for control, and a low NOx burner for NOx reduction, and exhausting to stack 3. Unit 2 shares the FGD system and exhaust stack with Unit 3, and has stack 2 as a bypass stack. Unit 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).
- (e) (b) One (1) coal/natural gas fired boiler, identified as Unit 3, constructed in 1970, with a maximum capacity of 2689 MMBtu per hour, using an ~~electrostatic precipitator~~ **fabric filter** for **PM** control, and low NOx burner and selective catalytic reduction technology (SCR) for NOx reduction, and exhausting to stack 3. Unit 3 shares the FGD system and exhaust stack with Unit 2. Unit 3 has continuous emissions monitors (CEMs) for nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitor (COM).

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

**Change 3:** Condition D.3.1(d), which has been renumbered as D.2.1(d) has been deleted. This condition makes the Supplemental Environmental Project ("SEP") agreed to by SIGECO as part of the U.S. EPA enforcement action a continuing requirement of SIGECO's Part 70 Permit. This SEP has been completed, except for submission of the final report. This requirement of the Consent Decree was not a continuing requirement and should not be made a part of the Part 70 permit, since it has been completed.

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

**D-3-12.1** Consent Decree

Pursuant to Consent Decree: Civil Action No. IP99-1692 C-M/F, effective June 6, 2003:

- (a) SIGECO shall continuously operate the SCR to achieve and maintain a 30-Day rolling average emission rate for NOx of not greater than 0.100 lb/MMBtu.
- (b) The FGD serving Unit 3 shall achieve and maintain a 30-Day rolling average SO<sub>2</sub> removal efficiency of at least ninety-five percent (95%).
- (c) By no later than June 30, 2007, SIGECO shall install and operate a baghouse at Unit 3 that achieves and maintains a PM emission rate of less than or equal to 0.015 lb/MMBtu.

~~(d) SIGECO shall design, construct, operate, and analyze a Sulfuric Acid Reduction Project ("Project") to reduce SO<sub>2</sub> content in the flue gas of Unit 3. SIGECO shall, by no later than June 30, 2004, commence operation of the Project. The Project requires the injection of sodium bisulfite/sulfate in variable concentrations to determine the removal efficiency and viability of operation. The Project includes, but is not limited to, installation of pollution control technology including an injection grid, piping, pumps, storage tanks and a control system.~~

**Change 4:** Condition D.3.8, which has been renumbered D.2.7, has also been revised.

D.3.8 2.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Pursuant to Consent Decree Civil Action No. IP99-1692 C-M/F, effective June 6, 2003, the Permittee shall perform PM testing for Unit 3 no later than December 31, 2005. **Within the two (2) calendar years following the most recent valid stack test, compliance with the PM limitation shall be determined by a performance stack test using methods as approved by the commissioner.** This test shall be repeated at least once every two (2.0) years following this valid compliance demonstration. Testing shall be conducted utilizing methods as approved by the Commissioner and in accordance with Section C- Performance Testing.

**Change 5:** Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

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

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

**Conclusion and Recommendation**

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. T173-27288-00001. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Allen K. Rose  
SIGECO - Culley Newburgh  
1 Main Street  
Evansville, Indiana 47711

**DATE:** July 17, 2009

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

**SUBJECT:** Final Decision  
Part 70 SPM  
173-27288-00001

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Ronald Jochum (VP Power Supply SIGECO)  
Erin Gorman (TRC Environmental)  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

July 17, 2009

TO: Boonville Warrick County Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: SIGECO - Culley Newburgh**  
**Permit Number: 173-27288-00001**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	CDENNY 7/17/2009 SIGECO - Cullev, Newburgh 173-27288-00001 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Allen K Rose SIGECO - Cullev, Newburgh Vectren, Wag Op Ctr, 1 N Main St Evansville IN 47711 (Source CAATS) <b>VIA CONFIRMED DELIVERY</b>										
2		Ronald G Jochum VP Power Supply SIGECO - Cullev, Newburgh Vectren Corp, One Vectren Sq Evansville IN 47708 (RO CAATS)										
3		Warrick County Board of Commissioners 107 W. Locust Street Suite # 301 Boonville IN 47601-0585 (Local Official)										
4		Boonville Warrick Co Public Library 611 W Main Boonville IN 47601-1544 (Library)										
5		Warrick County Health Department 107 W Locust, Suite 204 Boonville IN 47601-1701 (Health Department)										
6		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
7		Mr. Randy Brown Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
8		Mr. Don Mottley Save Our Rivers 6222 Yankeetown Hwy Boonville IN 47601 (Affected Party)										
9		Attn: Erin Gorman TRC Enviromental Corporation 1200 Wall Street West, 2nd Floor Lyndhurst NJ 07071 (Consultant)										
10		Newburgh Town Council and Town Manager P.O Box 6 Newburgh IN 47630 (Local Official)										
11		Kim Sherman 3355 Woodview Drive Newburgh IN 47630 (Affected Party)										
12		Carly Watson 8666 Hanover Dr. Newburgh IN 47630 (Affected Party)										
13		Mr. Bill Musgrove PO Box 565 Boonville IN 47601 (Affected Party)										
14		Mr. Bil Musgrove PO Box 520 Chandler IN 47610 (Affected Party)										
15		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
14			

# Mail Code 61-53

IDEM Staff	CDENNY 7/17/2009 SIGECO - Cullev, Newburgh 173-27288-00001 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		B.A. GZA GoeEnviromental 11499 Chester Road/Suite 511 Cincinnati OH 45246 (Consultant)									
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
1			