



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: December 17, 2007
RE: Mid-Continent Coal & Coke / 127-24855-00108
FROM: Matthew Stuckey, Deputy 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 13-15-5-3, this permit 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 13-15-6-1(b) or IC 13-15-6-1(a) 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

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 an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

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

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

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Mr. Carl Horst
Mid-Continent Coal & Coke
915 W. 175th Street
Homewood, IL 60430

December 17, 2007

Re: 127-24855-00108
First Significant Permit Modification to
Part 70 No.: T 127-7634-00108

Dear Mr. Carl Horst:

Mid-Continent Coal & Coke was issued a Part 70 permit on June 30, 2006 for a coke fines screening operation. A letter requesting changes to this permit was received on April 20, 2007. 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 addition of one (1) 125 HP diesel generator, two (2) rental diesel generators that shall not exceed 77 hp each, one (1) stacking conveyor with permanently attached feed hopper, a bagging operation at Plant 3, and the requirements of 40 CFR Part 60 Subpart IIII.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, a copy of the entire revised permit is attached.

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 Robert Henry, OAQ, 100 North Senate Avenue, MC61-53 IGCN1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Robert Henry or extension 4-5175, or dial (317) 234-5175.

Sincerely,

Original signed by
Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Attachments

REH

cc: File - Porter County
U.S. EPA, Region V
Porter County Health Department
Northwest Regional Office
Air Compliance Section Inspector
Compliance Data Section
Administrative and Development



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Mid Continent Coal & Coke
U.S. Highway 12
Burns Harbor, Indiana 46304**

(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.: T127-7634-00108	
Issued by: Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: June 30, 2006 Expiration Date: June 30, 2011
First Minor Permit Modification No.: 127-23615-00108	Issuance Date: November 14, 2006
First Significant Permit Modification No.: T127-24855-00108	
Issued by: <i>Original signed by</i> Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: December 17, 2007 Expiration Date: June 30, 2011

TABLE OF CONTENTS

A SOURCE SUMMARY

- A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]
- A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]
- A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]
- A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]
- A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

B GENERAL CONDITIONS

- 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]
- 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]
- 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]

C SOURCE OPERATION CONDITIONS

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]
- 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 Stack Height [326 IAC 1-7]
- C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

- C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
- C.11 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]
- C.12 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.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]
- C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]
- C.16 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.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]
- C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]
- C.19 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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1 FACILITY OPERATION CONDITIONS - Plant 1

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

- D.1.1 Particulate Emission Limitations [326 IAC 6-3-2]

Compliance Determination Requirements

- D.1.2 Particulate Matter (PM and PM₁₀)

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

- D.1.3 Visible Emissions Notations

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

- D.1.4 Record Keeping Requirements

D.2 FACILITY OPERATION CONDITIONS - Plant 2

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

- D.2.1 PSD and Emission Offset Minor Limits [326 IAC 2-2] [326 IAC 2-3]
- D.2.2 Particulate Emission Limitations [326 IAC 6-3-2]
- D.2.3 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Compliance Determination Requirements

- D.2.4 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

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

- D.2.5 Record Keeping Requirements
- D.2.6 Reporting Requirements

D.3 FACILITY OPERATION CONDITIONS - Sump Plant

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

- D.3.1 PSD and Emission Offset Minor Limits [326 IAC 2-2] [326 IAC 2-3]
- D.3.2 Particulate Emission Limitations [326 IAC 6-3-2]
- D.3.3 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Compliance Determination Requirements

- D.3.4 Particulate Matter (PM and PM₁₀)

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

- D.3.5 Visible Emissions Notations

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

D.3.6 Record Keeping Requirements

D.3.7 Reporting Requirements

D.4 FACILITY OPERATION CONDITIONS - Plant 3

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

D.4.1 Particulate Emission Limitations [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

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

D.4.3 Record Keeping Requirements

D.5 FACILITY OPERATION CONDITIONS - Conveyor Stackers

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

D.5.1 Particulate Emission Limitations [326 IAC 6-3-2]

D.5.2 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

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

D.5.3 Visible Emissions Notations

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

D.5.4 Record Keeping Requirements

D.6 FACILITY OPERATION CONDITIONS - Rental Generators

D.6.1 Rental Generators [326 IAC 2-7-10.5] [326 IAC 2-7-12]

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

D.6.2 Record Keeping Requirements

E.1 FACILITY OPERATION CONDITIONS - New Source Performance Standards (NSPS)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1]
[40 CFR Part 60, Subpart A]

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60,
Subpart IIII] [326 IAC 12]

Certification

Emergency Occurrence Report

Quarterly Reports

Quarterly Deviation and Compliance Monitoring Report

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, A.2, A.3, and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates portable coke fines screening operations.

Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
General Source Phone Number: (708) 798-1110
SIC Code: 5052
County Location: Porter
Source Location Status: Nonattainment for 8-hour ozone standard and PM_{2.5}
Attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source under PSD, Emission Offset, and Nonattainment NSR Rules
Major Source, Section 112 of the Clean Air Act
1 of 28 Listed Source Categories

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

Mid-Continent Coal and Coke Company, which operates three separate portable coke fines screening operations, is a contractor for ISG Burns Harbor, LLC:

- (a) ISG Burns Harbor, LLC (ID 00001), the primary operation, is located at U.S. Highway 12, Burns Harbor, Indiana 46304;
- (b) Mid-Continent Coal and Coke Company (previously permitted under ID 05215), a supporting operation known as Plant 1, is located at U.S. Highway 12, Burns Harbor, Indiana 46304;
- (c) Mid-Continent Coal and Coke Company (previously permitted under ID 05222), a supporting operation known as Plant 2, is located at 1150 East Boundary Road, Portage, Indiana 46368;
- (d) Mid-Continent Coal and Coke Company (previously permitted under ID 00108), a supporting operation known as the Sump Plant, is located at U.S. Highway 12, Burns Harbor, Indiana 46304; and
- (e) Mid-Continent Coal and Coke Company (previously permitted under ID 05216), a supporting operation known as Plant 3, is located at 1150 East Boundary Road, Portage, Indiana 46368.

Separate Part 70 permits will be issued to ISG Burns Harbor, LLC (TV 127-6301-00001) and Mid-Continent Coal and Coke Company (TV 127-7634-00108) solely for administrative purposes.

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

The Mid-Continent Coal and Coke operations consist of the following emission units and pollution control devices located at U.S. Highway 12, Burns Harbor:

- (a) One (1) metallurgical coke screening operation, identified as Plant 1, with a maximum capacity of 50 tons per hour of < 1.0 inch coke, constructed in 1968, with fugitive dust controlled on an as needed basis by water sprays, comprised of the following fugitive dust emitting equipment:
 - (1) One (1) vibrating coke screen, identified as ID 1;
 - (2) Four (4) conveyors with one (1) attached feed hopper, collectively identified as ID 2; and
 - (3) Coke storage piles, with a total maximum capacity of 3.0 acreage, identified as ID 2A.

- (b) One (1) screening operation, identified as Plant 2, with a maximum capacity of 50 tons per hour of coke, constructed in 2001, comprised of the following equipment:
 - (1) One (1) coke screen (ID PS);
 - (2) Three (3) conveyors (ID PC1 through PC3);
 - (3) One (1) hopper (ID PH1);
 - (4) One (1) internal combustion diesel generator, used to generate electric power, with a maximum capacity of 164 hp (ID PG1) and a model year of 1995. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit; and
 - (5) Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads.

- (c) One (1) mobile screening unit, identified as the Sump Plant, constructed in 2005, with a maximum capacity of 60 tons of coke fines per hour, consisting of the following:
 - (1) One (1) 6' x 12' vibrating single deck screen;
 - (2) One (1) 30" x 50' rubber conveyor;
 - (3) Two (2) 30" x 60' rubber conveyors;
 - (4) One 10' x 12' feed hopper;
 - (5) Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads;
 - (6) Coke storage piles with a maximum total area of 10.11 acres; and
 - (7) Paved and unpaved roadways.

Note: Electric power to the Sump Plant will be supplied by ISG Burns Harbor, LLC.

- (d) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-1, rated at 600 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (e) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-2, rated at 400 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (f) One (1) conveyor stacker, including a feed hopper, identified as CS-3, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (g) One (1) conveyor stacker, including a feed hopper, identified as CS-4, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (h) One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit.
- (i) Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

- (j) One (1) conveyor stacker with permanently attached feed hopper, permitted for construction in 2007, identified as CS-5, rated at 200 tons per hour.

And the following plant located at 1150 East Boundary Road, Portage:

- (k) Main screening plant, identified as Plant 3, constructed in 1968, with a maximum capacity of 23.8 tons per hour of coke, comprised of:
 - (1) one (1) 28' x 14' feed hopper (ID MS1), with a maximum capacity of 85 tons per hour of metallurgical coke;
 - (2) two (2) PEP screens (ID MS2 and MS3), each with a maximum capacity of 42.5 tons per hour of metallurgical coke;
 - (3) one (1) 6' x 20' Hewitt Robbins Vibrator (ID MS4), with a maximum capacity of 85 tons per hour of metallurgical coke;
 - (4) thirteen (13) rubber conveyors (ID MS5 thru MS17), each with a maximum capacity of 42.5 tons per hour of metallurgical coke;
 - (5) one (1) front screening plant, consisting of one (1) 12' x 12' feed hopper (ID FS1), one (1) 6' x 12' PEP screen (ID FS2), and five (5) rubber conveyors (ID FS3 thru 7) each with a maximum capacity of 25 tons per hour of metallurgical coke;
 - (6) Coke storage piles with a combined total maximum capacity of 13.7 acres; and
 - (7) one (1) bagging operation, constructed in 2005, with a maximum capacity of 75 tons per hour.

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

The Mid-Continent Coal and Coke operations do not currently have any insignificant activities, as defined in 326 IAC 2-7-1 (21), that have applicable requirements.

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

The Mid-Continent Coal and Coke portable operation 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).

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, T127-7634-00108, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

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

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

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

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

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

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

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

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

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification 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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

and

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

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

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

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

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

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, and the Northwest Regional Office, 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

and for the Northwest Regional Office;

Telephone Number: 1-888-209-8892 (ask for Office of Air Quality, Compliance Section)
Telephone Number: 219-757-0265 (ask for Air Compliance Section)
Facsimile Number: 219-757-0267

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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 T127-7634-05215 and issued pursuant to permitting programs approved into the state implementation plan have been:
 - (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 combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).
- Request for renewal shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

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

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

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

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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.

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 2-2-2 and/or 326 IAC 2-3-2.

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
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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. In the event that the source is a sub-contractor and is combined with a larger Part 70 source, the larger Part 70 source may pay the Permittees' annual fees as part of the larger source billing and subject to the fee cap of the larger source. If, however, the larger Part 70 does not pay its annual Part permit fee, IDEM, OAQ will assess a separate fee in accordance with 326 IAC 2-7-19(c) to be paid by the Permittee. 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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.9 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.13 Emergency Reduction Plans [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 prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

within ninety (90) days after the date of issuance of this permit.

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

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

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

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
- (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
- (4) Failure to take reasonable response steps shall be considered a deviation from the permit.

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

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

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

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

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

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for 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
MC61-50 IGCN1003
Indianapolis, Indiana 46204-2251

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

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

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

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [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.
- (c) If there is a "project" (as defined in 326 IAC 2-2-1 (qq)) and/or 326 IAC 2-3-1(II) at an existing emissions unit, 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)) 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) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
 - (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 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 Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (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 (c)(2) and (3) in Section C- General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (a) One (1) metallurgical coke screening operation, identified as Plant 1, with a maximum capacity of 50 tons per hour of < 1.0 inch coke, constructed in 1968, with fugitive dust controlled on an as needed basis by water sprays, comprised of the following fugitive dust emitting equipment:
- (1) One (1) vibrating coke screen, identified as ID 1;
 - (2) Four (4) conveyors with one (1) attached feed hopper, collectively identified as ID 2;
 - (3) Coke storage piles, with a total maximum capacity of 3.0 acreage, identified as ID 2A.

(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 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from Plant 1 shall be limited to less than 44.58 pounds per hour when operating at a process weight rate of 50 tons per hour. This limit was calculated using 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:

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

Compliance Determination Requirements

D.1.2 Particulate Matter (PM and PM₁₀)

The Permittee shall use wet suppression to control emissions of PM and PM₁₀ from the vibrating screen, conveyors, stock piles, and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6. If weather conditions preclude the use of wet suppression, the Permittee shall perform a moisture content analysis to ensure that the moisture content is equal to or greater than twelve (12) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

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

D.1.3 Visible Emissions Notations

- (a) Visible emission notations of the process emission points shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, 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 of this permit.

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

D.1.4 Record Keeping Requirements

- (a) To document compliance with condition D.1.2, the Permittee shall maintain records of the moisture analysis of the coke material, as needed.
- (b) To document compliance with condition D.1.3, the Permittee shall maintain records of visible emission notations of the transfer points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (b) One (1) screening operation, identified as Plant 2, with a maximum capacity of 50 tons per hour of coke, constructed in 2001, comprised of the following equipment:
- (1) One (1) coke screen (ID PS);
 - (2) Three (3) conveyors (ID PC1 through PC3);
 - (3) One (1) hopper (ID PH1);
 - (4) One (1) internal combustion diesel generator, used to generate electric power, with a maximum capacity of 164 hp (ID PG1) and a model year of 1995. Due to the model year, the requirements of 40 CFR 60, Subpart III are not applicable to this unit; and
 - (5) Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads;
- (h) One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart III are not applicable to this unit.

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

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

D.2.1 PSD and Emission Offset Minor Limits [326 IAC 2-2] [326 IAC 2-3]

Pursuant to Minor Source Modification 127-16021-05222, issued May 12, 2003;

- (a) The Permittee shall limit the diesel fuel usage by the coke screening operation to no greater than 80 kilo gallons per 12 consecutive month period with compliance determined at the end of each month. This limit is equivalent to NOx emissions of 24.8 tons per year. This limitation limits NOx emissions from the coke screening operation to less than 40 tons per year.
- (b) The Permittee shall limit the throughput of coke to the coke screening operation to less than 99,390 tons per 12 consecutive month period with compliance determined at the end of each month. This is equivalent to PM emissions of 14.91 tons per year and PM10 emissions of 9.94 tons per year. This limit is structured such that, when including the fugitive emissions and the limited emissions from the combustion of diesel fuel, PM emissions from the source are less than 25 tons per year and PM10 emissions from the coke screening operation are less than 15 tons per year.

Compliance with these limitations renders the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

D.2.2 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from Plant 2 shall be limited to less than 44.58 pounds per hour when operating at a process weight rate of 50 tons per hour. This limit was calculated using the following equation.

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

$$E = 55.0 P^{0.11} - 40$$

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

D.2.3 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

The Permittee shall control fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on May 20, 2002.

Compliance Determination Requirements

D.2.4 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

The Permittee shall use wet suppression to control emissions of PM and PM10 from the vibrating screen, conveyors, stock piles, and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure PM and PM10 emissions are less than twenty-five (25) and fifteen (15) tons per year, respectively. If weather conditions preclude the use of wet suppression, the Permittee shall perform a moisture content analysis to ensure that the moisture content is equal to or greater than twelve (12) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

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

D.2.5 Record Keeping Requirements

Pursuant to Minor Source Modification 127-16021-05222, issued May 12, 2003;

- (a) In order to demonstrate compliance with condition D.2.1, the Permittee shall maintain records of metallurgical coke processed at Plant 2.
- (b) To document compliance with Condition D.2.4, the Permittee shall maintain records of the moisture analysis of the coke material.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.6 Reporting Requirements

- (a) Pursuant to Minor Source Modification 127-16021-05222, issued May 12, 2003, a quarterly summary of the information to document compliance with condition D.2.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (c) One (1) mobile screening unit, identified as the Sump Plant, constructed in 2005, with a maximum capacity of 60 tons of coke fines per hour, consisting of the following:
 - (1) One (1) 6' x 12' vibrating single deck screen;
 - (2) One (1) 30" x 50' rubber conveyor;
 - (3) Two (2) 30" x 60' rubber conveyors;
 - (4) One 10' x 12' feed hopper;
 - (5) Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads;
 - (6) Coke storage piles with a maximum total area of 10.11 acres; and
 - (7) Paved and unpaved roadways.

Note: Electric power to the Sump Plant will be supplied by ISG Burns Harbor, LLC.

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

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

D.3.1 PSD and Nonattainment NSR Minor Limits [326 IAC 2-2] [326 IAC 2-1.1-5]

Pursuant to Minor Source Modification 127-22026-00108, issued December 30, 2005:

- (a) The PM and PM10 emission rates shall not exceed the following:

Emission Unit	PM	PM10
Fugitives	0.19 (lbs/tons of coal)	0.10 (lbs/tons of coal)

- (b) The Permittee shall limit the throughput of coke to the mobile screening unit to less than 243,000 tons per 12 consecutive month period with compliance determined at the end of each month.

Compliance with these limitations renders the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable.

D.3.2 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to Minor Source Modification 127-22026-00108, issued December 30, 2005, and 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the Sump Plant shall be limited to less than 46.29 pounds per hour when operating at a process weight rate of 60 tons per hour. This limit was calculated using 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.3.3 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to Minor Source Modification 127-22026-00108, issued December 30, 2005, the Permittee shall control fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on November 25, 2005.

Compliance Determination Requirements

D.3.4 Particulate Matter (PM and PM₁₀)

Pursuant to Minor Source Modification 127-22026-00108, issued December 30, 2005, the Permittee shall use wet suppression to control emissions of PM and PM₁₀ from the vibrating screen, conveyors, stock piles, and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6. If weather conditions preclude the use of wet suppression, the Permittee shall perform a moisture content analysis to ensure that the moisture content is equal to or greater than twelve (12) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

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

D.3.5 Visible Emissions Notations

- (a) Visible emission notations of the process emission points shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, 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.

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

D.3.6 Record Keeping Requirements

- (a) To document compliance with conditions D.3.2 and D.3.5, the Permittee shall maintain records of visible emission notations of the process emission points that are described in the facility description of this section. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document compliance with condition D.3.4, the Permittee shall maintain records of moisture content analysis.
- (c) In order to demonstrate compliance with condition D.3.1, the Permittee shall maintain records of metallurgical coke processed at the Sump Plant.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.7 Reporting Requirements

A quarterly summary of the information to document compliance with condition D.3.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

This report shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

- (h) Main screening plant, identified as Plant 3, constructed in 1968, with a maximum capacity of 23.8 tons per hour of coke, comprised of:
 - (1) one (1) 28' x 14' feed hopper (ID MS1), with a maximum capacity of 85 tons per hour of metallurgical coke;
 - (2) two (2) PEP screens (ID MS2 and MS3), each with a maximum capacity of 42.5 tons per hour of metallurgical coke;
 - (3) one (1) 6' x 20' Hewitt Robbins Vibrator (ID MS4), with a maximum capacity of 85 tons per hour of metallurgical coke;
 - (4) thirteen (13) rubber conveyors (ID MS5 thru MS17), each with a maximum capacity of 42.5 tons per hour of metallurgical coke;
 - (5) one (1) front screening plant, consisting of one (1) 12' x 12' feed hopper (ID FS1), one (1) 6' x 12' PEP screen (ID FS2), and five (5) rubber conveyors (ID FS3 thru 7) each with a maximum capacity of 25 tons per hour of metallurgical coke; and
 - (6) Coke storage piles with a combined total maximum capacity of 13.7 acres.
 - (7) one (1) bagging operation, constructed in 2005, with a maximum capacity of 75 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.4.1 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from Plant 3 shall not exceed the following limits:

- (a) The one (1) front screening plant, consisting of one (1) 12' x 12' feed hopper (ID FS1), one (1) 6' x 12' PEP screen (ID FS2), and five (5) rubber conveyors (ID FS3 thru 7) each with a maximum capacity of 25 tons per hour of metallurgical coke shall not exceed the following:

Emission Unit	Process Rate	PM limit
Front Screening Plant	25 (tons/hr)	35.43 (lbs/hr)

The pounds per hour limitation was calculated using 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:

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

- (b) The thirteen (13) rubber conveyors (ID MS5 thru MS17), each with a maximum capacity of 42.5 tons per hour of metallurgical coke and the one (1) bagging operation, constructed in 2005, with a maximum capacity of 75 tons per hour shall not exceed the following:

Emission Unit	Process Rate	PM10
Thirteen Rubber Conveyors (ID MS5 thru MS17)	42.5 (tons/hr)	43.08 (lbs/hr)
Bagging Operation	75 (tons/hr)	48.43 (lbs/hr)

The pounds per hour limitation was calculated using 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:

$$E = 55.0P^{0.11}-40$$

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

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

D.4.2 Visible Emissions Notations

- (a) Visible emission notations of the process emission points shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, 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 of this permit.

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

D.4.3 Record Keeping Requirements

- (a) To document compliance with condition D.4.2, the Permittee shall maintain records of visible emission notations of the emission points that are described in the facility description of this section. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (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)]:

- (d) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-1, rated at 600 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (e) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-2, rated at 400 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (f) One (1) conveyor stacker, including a feed hopper, identified as CS-3, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (g) One (1) conveyor stacker, including a feed hopper, identified as CS-4, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, railcars, barges and ships.
- (j) One (1) conveyor stacker with permanently attached feed hopper, permitted for construction in 2007, identified as CS-5, rated at 200 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 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate matter (PM) emissions shall be limited by the following equation for process weight rates in excess of sixty thousand (60,000) pounds per hour:

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

- (a) For conveyor stacker CS-1, with a process weight rate of 600 tons per hour, this equation provides a limit of 71.2 pounds per hour.
- (b) For conveyor stacker CS-2, with a process weight rate of 400 tons per hour, this equation provides a limit of 66.3 pounds per hour.
- (c) For conveyor stackers CS-3, CS-4, and CS-5 each with a process weight rate of 200 tons per hour, this equation provides a limit of 58.5 pounds per hour for each stacker.

D.5.2 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5-4, the Permittee shall control fugitive particulate matter emissions by spraying the material with water on an as-needed basis.

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

D.5.3 Visible Emissions Notations

- (a) Visible emission notations of the process emission points shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, 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 of this permit.

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

D.5.4 Record Keeping Requirements

- (a) To document compliance with condition D.5.3, the Permittee shall maintain records of visible emission notations of the emission points that are described in the facility description of this section. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) 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)]: Rental Generators

- (i) Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

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

D.6.1 Rental Generators [326 IAC 2-7-10.5] [326 IAC 2-7-12]

The Permittee may remove and replace these rental generators (PG3 and PG4) with another rental generator at any time without prior approval under 326 IAC 2-7-10.5 and 326 IAC 2-7-12. Subject to the following conditions:

- (a) only two (2) generators may be installed and operated under this approval (SSM 127-24646-00108 and SPM 127-24855-00108);
- (b) the generator shall not exceed 77 hp each; and
- (c) the generators shall be diesel-fired only.

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

D.6.2 Record Keeping Requirements

- (a) The Permittee shall maintain records of the dates of installation and removal of units PG3 and PG4 as each unit is installed and removed.
- (b) The Permittee shall maintain records of the make, model, horsepower, and model year of each rental diesel generator brought onto the site.
- (c) The Permittee shall maintain records of the fuel type and usage of units PG3 and PG4.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

SECTION E.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (i) Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for rental diesel generators PG3 and PG4, except as otherwise specified in 40 CFR Part 60, Subpart IIII.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the provisions of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, which are incorporated by reference as 326 IAC 12, for rental diesel generators PG3 and PG4 as follows:

Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Source: 71 FR 39172, July 11, 2006, unless otherwise noted.

What This Subpart Covers

§ 60.4200 *Am I subject to this subpart?*

- (a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.
- (1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:
- (i) 2007 or later, for engines that are not fire pump engines,
- (ii) The model year listed in table 3 to this subpart or later model year, for fire pump engines.
- (2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:
- (i) Manufactured after April 1, 2006 and are not fire pump engines, or

- (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
- (3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.
- (b) The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.
- (c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.
- (d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

§ 60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

- (a) Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).
- (b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

- (a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).
- (b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.
- (c) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.
- (d) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the Federal Aid Highway System may petition the Administrator for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of paragraphs (a) and (b) of this section. Owners and operators must demonstrate in their petition to the Administrator that there is no other place

to use the lubricating oil. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

- (a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.
- (b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.
- (c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.
- (d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.
- (e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.
- (f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.
- (g) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (f) of this section after the dates specified in paragraphs (a) through (f) of this section.
- (h) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

- (a) If you are an owner or operator of an emergency stationary CI internal combustion engine, you must install a non-resettable hour meter prior to startup of the engine.
- (b) If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

- (a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

- (b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.
- (1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
 - (2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.
 - (3) Keeping records of engine manufacturer data indicating compliance with the standards.
 - (4) Keeping records of control device vendor data indicating compliance with the standards.
 - (5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.
- (c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.
- (d) If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.
- (1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.
 - (2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.
 - (i) Identification of the specific parameters you propose to monitor continuously;
 - (ii) A discussion of the relationship between these parameters and NOX and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NOX and PM emissions;
 - (iii) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
 - (iv) A discussion identifying the methods and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
 - (v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.
 - (3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.

- (e) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

§ 60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (d) of this section.

- (a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.
- (b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.
- (c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

- (d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

- (a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.
- (1) Submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.

- (i) Name and address of the owner or operator;
 - (ii) The address of the affected source;
 - (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
 - (iv) Emission control equipment; and
 - (v) Fuel used.
- (2) Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.
- (i) All notifications submitted to comply with this subpart and all documentation supporting any notification.
 - (ii) Maintenance conducted on the engine.
 - (iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.
 - (iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.
- (b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.
- (c) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

§ 60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

§ 60.4219 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Diesel particulate filter means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of “manufacturer” in this section.

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Manufacturer has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for sale or resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means either:

- (1) The calendar year in which the engine was originally produced, or
- (2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Reciprocating internal combustion engine means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

Useful life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

Tables to Subpart IIII of Part 60

Table 1 to Subpart IIII of Part 60.—Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007–2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007–2010 model year engines >2,237 KW (3,000 HP) and with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NO _x	HC	NO _x	CO	PM
KW<8 (HP<11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8≤ KW<19 (11 ≤ HP<25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19≤ KW<37 (25 ≤ HP<50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37≤ KW<56 (50 ≤ HP<75)			9.2 (6.9)		
56≤ KW<75 (75 ≤ HP<100)			9.2 (6.9)		
75≤ KW<130 (100 ≤ HP<175)			9.2 (6.9)		
130≤ KW<225 (175 ≤ HP<300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225≤ KW<450 (300 ≤ HP<600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450≤ KW≤ 560 (600 ≤ HP≤ 750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Table 2 to Subpart IIII of Part 60.—Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE <37 KW (50 HP) With a Displacement of <10 Liters per Cylinder

[As stated in §60.4202(a)(1), you must comply with the following emission standards]

Engine power	Emission standards for 2008 model year and later emergency stationary CI ICE <37 KW (50 HP) with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)			
	Model year(s)	NO _x + NMHC	CO	PM
KW<8 (HP<11)	2008+	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8≤ KW<19 (11 ≤ HP<25)	2008+	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19≤ KW<37 (25 ≤ HP<50)	2008+	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

Table 8 to Subpart IIII of Part 60.—Applicability of General Provisions to Subpart IIII

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥ 30 liters per cylinder and engines that are not certified.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥ 30 liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Mid-Continent Coal and Coke
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: P.O. Box 540, Portage, Indiana 46304
Part 70 Permit No.: T127-7634-00108

**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
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Mid-Continent Coal and Coke
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: P.O. Box 540, Portage, Indiana 46304
Part 70 Permit No.: T127-7634-00108

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM ₁₀ , SO ₂ , VOC, NOX, 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 Report

Source Name: Mid-Continent Coal and Coke
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
Part 70 Permit No.: T127-7634-00108
Facility: Plant 2 coke screening operation
Parameter: Coke throughput
Limit: Less than 99,390 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

Part 70 Operating Permit Quarterly Report

Source Name: Mid-Continent Coal and Coke Company
Source Address: U.S. Highway 12, and 1150 East Boundary Road, Burns Harbor, Indiana 46312
Mailing Address: West 175th Street, Homewood, ILL 60430
Part 70 Permit No.: T127-7634-00108
Facility: Sump Plant
Parameter: Coke throughput
Limit: Less than 243,000 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete 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: Mid-Continent Coal and Coke
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: P.O. Box 540, Portage, Indiana 46304
Part 70 Permit No.: T127-7634-00108

Months: _____ to _____ Year: _____

Page 1 of 2

<p>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".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

MID-CONTINENT COAL AND COKE COMPANY

915 WEST 175TH STREET
HOMEWOOD, ILLINOIS 60430

PREMIUM QUALITY
COAL AND COKE

TELEPHONE (708) 798-1110
FACSIMILI (708) 798-1299

FUGITIVE DUST CONTROL PLAN

Revised: August 21, 2007

Part 70 Permit #: 127-7634-00108

Source Information

Primary Contact & Owner Information

Carl Horst
Manager of Operations
Mid-Continent Coal and Coke Company
915 W. 175th Street
Homewood, IL 60430
(708) 798-1110
Off-hours Number (708) 267-7198

Source Address

ISG Burns Harbor, L.L.C.
250 U.S. Highway 12
Burns Harbor, Indiana 46368

Emission Sources and Methods of Fugitive Emissions Control

Roadway Control Measures

Port of Indiana Facility – Plant 3 (consists of two screening operations)

1. Traffic is restricted to established and controlled roadways.
2. Vehicular traffic on unpaved roads is limited to 5 mph.
3. Paved roadways adjacent to the plant and unpaved roadways at the plant are inspected each day of operation to determine if dust suppression is required.
4. Water sprays from a Mid-Continent water tank or loader bucket is used as needed to wet down roadways at the Port of Indiana location. A city-supplied water source is located at the Port of Indiana Plant site.

Facilities within ISG Burns Harbor, L.L.C. – Plant 1, Plant 2, and the Sump Plant

1. Traffic is restricted to established and controlled roadways.
2. Vehicular traffic on unpaved roads is limited to 5 mph.
3. Paved roadways are the responsibility of the mill. Unpaved roadways at the plant are inspected each day of operation to determine if dust suppression is required.
4. A contracted NALCO or ISG water truck is used, as needed, to wet down unpaved areas.

Coke/Coal Stockpile Control Measures

All Facilities

1. End loader bucket drop height, during screening and transportation vehicle/vessel loading is kept to the lowest practical elevation.
2. Water is applied to stockpiles, as necessary, to prevent visible emissions from leaving the property.
3. Water will not be applied during freezing weather, typically between October 15 and April 15.

Coke/Coal Screening & Stacking Control Measures

All Facilities

The inherent moisture of coke is 10% or greater. This prevents visible emissions during screening and stacking operations. If excess emissions are observed during screening or stacking, operations will stop and one of two control methods will be used:

1. Water sprays may be applied to the source stockpile to get its moisture level above 10%
2. For small amounts of dry coke, fresh material may be dumped on top of the dry material and mixed with a loader bucket to raise the moisture content of the dry material to an acceptable level.

Site Maps

Legend

Unpaved Roads - - - - -

Stockpile 

Screening Operation 

Property Line ······

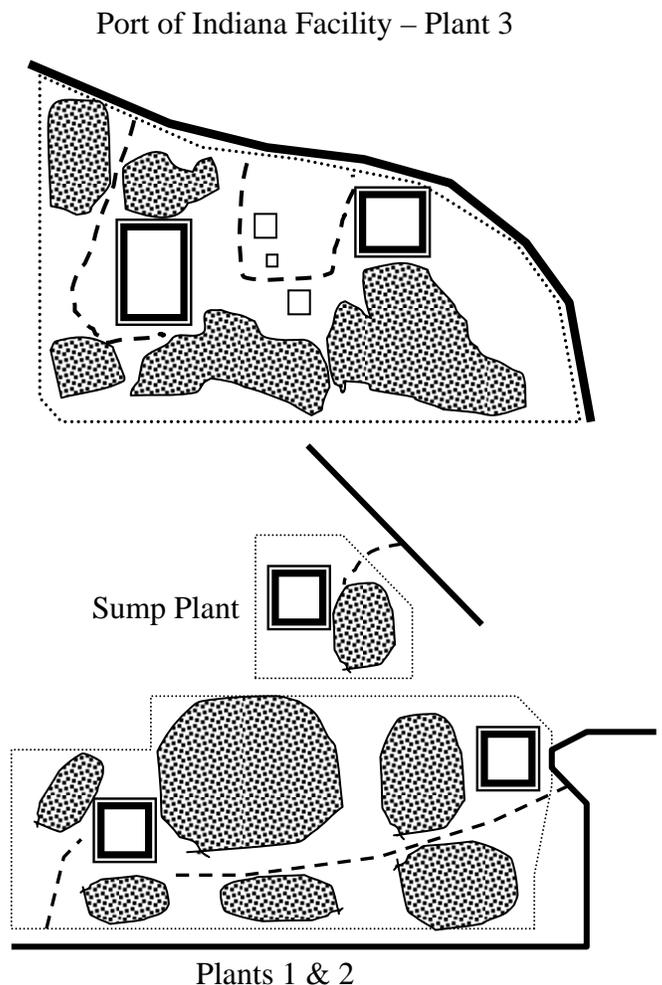
Buildings 

Paved Road 

Stacking Conveyor(s) are not indicated. They can be located anywhere within the property.

Note: Stockpiles and the exact location to the screening and stacking operations will vary within the property.

North
←



Indiana Department of Environmental Management Office of Air Quality

Addendum to the
Technical Support Document for a
Significant Source Modification and a Significant Permit Modification to a
Part 70 Operating Permit

Source Name:	Mid-Continent Coal and Coke Company
Source Location:	U.S. Highway 12, Burns Harbor, Indiana 46304
County:	Porter
SIC Code:	5052
Operating Permit No.:	T127-7634-00108
Source Modification No.:	127-24646-00108
Permit Modification No.:	127-24855-00108
Permit Reviewer:	Robert Henry

On October 3, 2007, the Office of Air Quality (OAQ) had a notice published in the Chesterton Tribune in Chesterton, Indiana, stating that Mid-Continent Coal and Coke Company had applied for a modification to the Part 70 Operating Permit No.: T127-7634-00108. The notice also stated that OAQ proposed to issue a permit for this modification and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On October 25, 2007, David Donathen of Bruce Carter Associates, LLC., on behalf of Mid-Continent Coal and Coke Company, submitted comments. The summary of the comment and revisions to the permit (bolded language has been added, the language with a line through it has been deleted) are as follows:

Comment No. 1

Plant 2 and the Sump Plant have front end loaders listed in their descriptions. Front end loaders are used throughout the source (plants 1, 2, 3, and sump plant) and only need to be mentioned for the fugitive emissions from unpaved and paved roads. Please update the descriptions to give Mid-Continent Coal and Coke Company some permit flexibility.

Response No. 1

The facility descriptions of the front end loaders have been updated as follows:

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

The Mid-Continent Coal and Coke operations consist of the following emission units and pollution control devices located at U.S. Highway 12, Burns Harbor:

...

- (b) One (1) screening operation, identified as Plant 2, with a maximum capacity of 50 tons per hour of coke, constructed in 2001, comprised of the following equipment:

...

- (5) ~~One (1) front-end loader with a diesel internal combustion engine with a maximum capacity of 180 hp (ID PF1).~~ **Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads.**

- (c) One (1) mobile screening unit, identified as the Sump Plant, constructed in 2005, with a maximum capacity of 60 tons of coke fines per hour, consisting of the following:
...
 - (5) ~~One (1) front-end loader, identified as 22Z04441, with a diesel fueled internal combustion engine with a maximum capacity of 180 hp;~~ **Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads;**

...

SECTION D.2

FACILITY OPERATION CONDITIONS

<p>Facility Description [326 IAC 2-7-5(15)]: Plant 2</p> <ul style="list-style-type: none">(b) One (1) screening operation, identified as Plant 2, with a maximum capacity of 50 tons per hour of coke, constructed in 2001, comprised of the following equipment:<ul style="list-style-type: none">(1) One (1) coke screen (ID PS);(2) Three (3) conveyors (ID PC1 through PC3);(3) One (1) hopper (ID PH1);(4) One (1) internal combustion diesel generator, used to generate electric power, with a maximum capacity of 164 hp (ID PG1) and a model year of 1995. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit; and(5) One (1) front-end loader with a diesel internal combustion engine with a maximum capacity of 180 hp (ID PF1). Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads. (h) One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit. <p>(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)</p>

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (c) One (1) mobile screening unit, identified as the Sump Plant, constructed in 2005, with a maximum capacity of 60 tons of coke fines per hour, consisting of the following:
- (1) One (1) 6' x 12' vibrating single deck screen;
 - (2) One (1) 30" x 50' rubber conveyor;
 - (3) Two (2) 30" x 60' rubber conveyors;
 - (4) One 10' x 12' feed hopper;
 - (5) ~~One (1) front end loader with a diesel internal combustion engine with a maximum capacity of 180 hp (ID PF4~~ **Wheel loaders with each having a maximum four (4) cubic yard bucket and a minimum vehicle weight of 36300 lbs traveling on paved and unpaved roads;**
 - (6) Coke storage piles with a maximum total area of 10.11 acres; and
 - (7) Paved and unpaved roadways.

Note: Electric power to the Sump Plant will be supplied by ISG Burns Harbor, LLC.

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

Comment No. 2

Plant 1 has a feed hopper. It is attached to one of the four conveyors, but isn't mentioned.

Response No. 2

After review of the application for the Title V Operating permit, IDEM has determined that the feed hopper was inadvertently missed in the facility descriptions for Plant 1. The emissions from the feed hopper have already been accounted for in the Title V Operating permit. The facility descriptions have been updated to add the feed hopper as follows:

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

The Mid-Continent Coal and Coke operations consist of the following emission units and pollution control devices located at U.S. Highway 12, Burns Harbor:

- (a) One (1) metallurgical coke screening operation, identified as Plant 1, with a maximum capacity of 50 tons per hour of < 1.0 inch coke, constructed in 1968, with fugitive dust controlled on an as needed basis by water sprays, comprised of the following fugitive dust emitting equipment:
- (1) One (1) vibrating coke screen, identified as ID 1;
 - (2) Four (4) conveyors **with one (1) attached feed hopper**, collectively identified as ID 2; and

...

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (a) One (1) metallurgical coke screening operation, identified as Plant 1, with a maximum capacity of 50 tons per hour of < 1.0 inch coke, constructed in 1968, with fugitive dust controlled on an as needed basis by water sprays, comprised of the following fugitive dust emitting equipment:
- (1) One (1) vibrating coke screen, identified as ID 1;
 - (2) Four (4) conveyors **with one (1) attached feed hopper**, collectively identified as ID 2;
 - (3) Coke storage piles, with a total maximum capacity of 3.0 acreage, identified as ID 2A.

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

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

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

Source Description and Location

Source Name:	Mid-Continent Coal & Coke Company
Source Location:	US Highway 12, Burns Harbor, IN 46304
County:	Porter
SIC Code:	5052
Operation Permit No.:	T 127-7634-00108
Operation Permit Issuance Date:	June 30, 2006
Significant Source Modification No.:	127-24646-00108
Significant Permit Modification No.:	127-24855-00108
Permit Reviewer:	Robert Henry

Source Definition

The source definition has not changed as part of this modification.

Existing Approvals

The source was issued Part 70 Operating Permit No. 127-7634-00108 on June 30, 2006. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
Minor Source Modification	127-23580-00108	September 20, 2006
Minor Permit Modification	127-23615-00108	November 14, 2006

County Attainment Status

The source is located in Porter County.

Pollutant	Status
PM ₁₀	Attainment
PM _{2.5}	Nonattainment
SO ₂	Attainment
NO _x	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

Note: On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to redesignate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph counties as attainment for the 8-hour ozone standard.

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NOX) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
- (1) On December 22, 2006, the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for implementation of the eight-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir.,

December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Gary-Lake-Porter County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for nonattainment new source review. See the State Rule Applicability for the source section.

- (2) VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Porter County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

- (b) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Porter County as nonattainment for PM_{2.5}. 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 guidance to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions pursuant to the requirements of Nonattainment NSR, 326 IAC 2-1.1-5.

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

- (d) Since this source is classified as a contractor of a steel mill, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

- (e) Fugitive Emissions
Since this type of operation (steel production) 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.

Source Status

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

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

- (a) Mid-Continent Coal and Coke Company is a contractor for ISG Burns Harbor, LLC, and is considered to be a single emission source with this steel mill due to contractual control. As a result, this source 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 classified as a major stationary source under PSD (326 IAC 2-2) because:
 - (1) a regulated pollutant is emitted at a rate of 100 tons per year or more, and
 - (2) it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (c) This existing source is a major stationary source under Emission Offset (326 IAC 2-3), because VOC is emitted at a rate of 100 tons per year or more.
- (d) This existing source is a major stationary source under Nonattainment NSR (326 IAC 2-1.1-5), because PM₁₀, a surrogate for PM_{2.5} is emitted at a rate of 100 tons per year or more.

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 (tons/yr)
Single HAP	greater than 10
Total HAPs	greater than 25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, 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).

Actual Emissions

No previous emission data has been received from the source.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Mid-Continent Coal & Coke on April 20, 2007, relating to the addition of three generators and one stacking conveyor, and correcting descriptive errors in the permit. The following is a list of the proposed emission units and changes:

- (a) One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit.
- (b) Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

- (c) One (1) stacking conveyor with permanently attached feed hopper, permitted for construction in 2007, identified as CS-5, rated at 200 tons per hour.
- (d) MCCC Plant 2 - screening operation has been relocated to 1150 East Boundary Road, Portage, Indiana 46368. Condition A.2 specifies that this source includes the plants located on U.S. Highway 12, Burns Harbor, Indiana 46304 and 1150 East Boundary Road, Portage, Indiana 46368. Therefore, Plant 2 is still considered collocated with ISG Burns Harbor, LLC after the move. Condition A.2 has been revised to update the physical address of Plant 2.
- (e) The number of conveyors under Condition A.3(b)(2) is being revised from three (3) to four (4).
- (f) For Condition A.3(d) through A.3(g), the description for these units is being revised to include the scenario of loading coal or coke to railcars.
- (g) For Condition A.3(h), the maximum capacity for the main screening plant (Plant 3) is being listed as 85 tons per hour in order to match the capacity for the emission units listed under this plant.
- (h) For Condition A.3(h)(4), there are thirteen (13) rubber conveyors at Plant 3, identified as MS5 through MS17.
- (i) A bagging operation is being added to Plant 3. A letter requesting the construction and operation of this insignificant activity was submitted to IDEM on March 18, 2005. No approval from IDEM was previously issued for this request. The maximum capacity for this operation is 75 tons per hour.
- (j) Conditions A.3(a)(3) and (a)(4) should be combined from a coke stockpile capacity of 1.5 acres each to a total maximum capacity of 3.0 acres. There is no change in the potential to emit emissions after this revision since the total acreage remains as permitted in the original Part 70 Permit.

The Permittee stated the requested changes in paragraphs (d) through (j) are description errors that were not identified during the issuance of the Part 70 permit. There are no physical changes associated with the revisions in paragraph (d) through (j) above. The uncontrolled potential to emit PM/PM10 from the bagging operation at Plant 3 is less than 5.0 tons per year (see the calculations in Appendix A). Therefore, the construction of the bagging operation is exempt from the permitting requirements pursuant to 326 IAC 2-1.1-3(e)(1). However, since the potential to emit of the bagging operation is greater than the thresholds for insignificant activities in 326 IAC 2-7-1(21), the bagging operation should be listed under Condition A.3 - Emission Units and Pollution Control Equipment Summary. Sections A.1 and A.3 and the description box in Sections D.1, D.4, and D.5 have been revised as shown under the Proposed Changes section of this TSD.

- (k) The Permittee stated that there are insignificant degreasing operations, which were installed before 1976 at this source, and the maximum solvent usage for each operation is less than 145 gallons per twelve (12) consecutive months. Since these degreasing operations were

constructed before 1980, the requirements of 326 IAC 8-3-2 and 326 IAC 8-3-5 are not applicable. There are no specifically applicable requirements for the insignificant degreasing operations at this source, therefore, these degreasing operations are only documented in this permit modification and will not be included in Condition A.4 - Specifically Regulated Insignificant Activities.

- (l) The Permittee requested to revise the language in Conditions D.1.2 and D.3.4 to specify that wet suppression is required on an as-needed basis as it is listed in Condition D.5.2. The material handled at this source has a moisture content greater than 12%. Since Conditions D.1.2 and D.3.4 state that the suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6, Conditions D.1.2 and D.3.4 have been corrected.

Upon further review, IDEM has made the following changes:

- (a) IDEM, OAQ has determined that it is not necessary to list the Responsible Official name or title in Section A.1, General Information, of the permit. However, OAQ will still be evaluating if a change in RO meets the criteria specified in 326 IAC 2-7-1(34).
- (b) The front-end loaders are considered mobile sources and the tailpipe emissions from the mobile sources are not subject to air permitting requirements. Therefore, the fuel usage limit for the front-end loaders in Condition D.2.1(a) and the PM/PM10 emission limits for the front-end loader in Condition D.3.1(a), which was established to limit the NOx and PM/PM10 emissions from the tailpipe of the loader, have been removed from the permit. The quarterly reporting form associated with Condition D.2.1(a) has been removed, as well.
- (c) Condition D.2.4 has been revised to state that the Permittee shall use wet suppression to control emissions of PM and PM10 from the coke screening operation and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. A corresponding record keeping requirement has been added as Condition D.2.5(b).
- (d) The record keeping requirements for visible emission notations in Conditions D.1.4(b), D.3.6(a), D.4.3(a), and D.5.4(a) have been revised to state that the Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (e) Porter County has been designated as nonattainment for PM 2.5. IDEM will use the PM10 major nonattainment NSR program as a surrogate to address the requirements of major nonattainment NSR for the PM2.5 NAAQS. Conditions D.2.1 and D.3.1 have been revised to add the rule citation for Nonattainment NSR (326 IAC 2-1.1-5).
- (f) In order to further clarify the applicability of the NSPS Subpart IIII, the description of the 164 hp internal combustion diesel generator has been modified.

Enforcement Issues

IDEM is aware that some of the equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

Pollutant	Potential To Emit (ton/yr)
PM	2.69
PM ₁₀	2.69
SO ₂	2.51
VOC	3.08
CO	8.16
NO _x	37.88

This source modification is subject to 326 IAC 2-7-10.5(f)(4), which states that any modification with a potential to emit greater than or equal to twenty-five (25) tons per year of Nitrogen Oxides (NO_x) shall be processed as a significant source modification. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), which states that significant changes in existing monitoring, Part 70 permit terms, or conditions and every relaxation of reporting or record keeping permit terms or conditions shall be considered significant. This modification is subject to this rule because the NSPS Subpart IIII must be incorporated into the permit due to the addition of the generators.

Permit Level Determination – PSD or Emission Offset

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

Process / Emission Unit	Potential to Emit (ton/yr)					
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x
PG2, PG3, PG4	2.69	2.69	2.51	3.08	8.16	37.88
Bagging Operation	2.97	1.46	-	-	-	-
CS-5	3.55	2.37	-	-	-	-
Total for Modification	9.21	6.52	2.51	3.08	8.16	37.88
Significant Level	25	15	40	40	100	40

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

This modification to an existing major stationary source is not major because the emissions increase of VOC and NO_x are each less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Porter County has been designated as nonattainment for PM_{2.5} in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled “Implementation of New Source Review Requirements in PM_{2.5} Nonattainment Areas” authored by Steve Page, Director of OAQPS, until EPA promulgates the PM_{2.5} major NSR regulations, states should assume that a major stationary

source's PM₁₀ emissions represent PM_{2.5} emissions. IDEM will use the PM₁₀ nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM_{2.5} NAAQS. A significant emissions increase would be a net emissions increase or the potential of fifteen (15) tons per year or greater of PM₁₀. Mid-Continent Coal & Coke has the potential to emit of PM₁₀ from the modification of less than fifteen (15) tons per year. Therefore, assuming that PM₁₀ emissions represent PM_{2.5} emissions, 326 IAC 2-1.1-5 Nonattainment NSR does not apply for PM_{2.5}.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

NSPS:

- (a) Mid-Continent Coal & Coke is subject to the New Source Performance Standards for Subpart IIII (40 CFR 60.4200, Subpart IIII), which is incorporated by reference as 326 IAC 12. The two (2) diesel generators subject to this rule include the following:

Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

The following generator is exempt from the requirements of this rule due to the model year of the equipment.

One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit.

Nonapplicable portions of the NSPS will not be included in the permit. These new emission units are subject to the following portions of Subpart IIII.

- (1) 40 CFR 60.4200(a)(2), (3).
- (2) 40 CFR 60.4204(a), (b).
- (3) 40 CFR 60.4206.
- (4) 40 CFR 60.4207(a), (b), (c), (d).
- (5) 40 CFR 60.4208.
- (6) 40 CFR 60.4211(a), (b), (c), (d).
- (7) 40 CFR 60.4212.
- (8) 40 CFR 60.4218.
- (9) 40 CFR 60.4219.

NESHAP:

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

State Rule Applicability Determination

The following state rule is applicable to the source due to the modification:

326 IAC 12 (New Source Performance Standards)

Since this source is located in Porter County, and has a potential to emit NO_x and VOC greater than or equal to twenty-five (25) tons per year, an emission statement covering the previous calendar year must be submitted by July 1 of each year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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.

New compliance determination and monitoring requirements applicable per 40 CFR Part 60, Subpart IIII are added to Section E.1 of the permit as shown in the Proposed Changes section below. Changes to the compliance determination and monitoring requirements are detailed in the Proposed Changes section of this document

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 127-7634-00108. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

- (1) IDEM, OAQ has determined that it is not necessary to list the Responsible Official name or title in Section A.1, General Information, of the permit. However, OAQ will still be evaluating if a change in RO meets the criteria specified in 326 IAC 2-7-1(34). Section A.1 to state the source status under Nonattainment NSR. The revised permit condition is as follows:

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 portable coke fines screening operations.

~~Responsible Official: President~~
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
General Source Phone Number: (708) 798-1110
SIC Code: 5052
County Location: Porter
Source Location Status: Nonattainment for 8-hour ozone standard and PM_{2.5}
Attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source under PSD, ~~and~~ Emission Offset, **and Nonattainment NSR Rules**

- (2) All references to IDEM, OAQ's mailing address have been revised as follows:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Modeling Section, Office of Air Quality
100 North Senate Avenue
MC61-50 IGCN1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC61-52 IGCN1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2251

(3) Condition B.2 has changed to reflect the current source identification number as follows:

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

(a) This permit, T127-7634-~~0521500108~~, 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.

(4) The clean unit and pollution control project provisions of the U.S. EPA's New Source Review Reform Rules were vacated on June 24, 2005 by a United States Court of Appeals for the District of Columbia Circuit decision. This decision also remanded the "reasonable possibility" standard back to U.S. EPA. The OAQ plans to remove the vacated provisions from 326 IAC 2 at the next state rulemaking opportunity. Paragraph (c) of Condition C.18, Record Keeping Requirements, has been revised to remove references to "reasonable possibility" and the clean unit and pollution control project provisions.

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

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

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

- (c) ~~If there is a reasonable possibility 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 Clean Unit, which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1 (z)) 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:~~

If there is a “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, 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)) 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:

- (5) The following changes are the results of the modifications proposed by the Permittee and were explained in the "Description of Proposed Modification" section of this TSD.

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

Mid-Continent Coal and Coke Company, which operates three separate portable coke fines screening operations, is a contractor for ISG Burns Harbor, LLC:

...

- (c) Mid-Continent Coal and Coke Company (previously permitted under ID 05222), a supporting operation known as Plant 2, is located at ~~U.S. Highway 12, Burns Harbor~~ **1150 East Boundary Road, Portage**, Indiana 46304 **46368**;

...

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (a) One (1) metallurgical coke screening operation, identified as Plant 1, with a maximum capacity of 50 tons per hour of < 1.0 inch coke, constructed in 1968, with fugitive dust controlled on an as needed basis by water sprays, comprised of the following fugitive dust emitting equipment:
- (1) One (1) vibrating coke screen, identified as ID 1;
 - (2) ~~Three (3)~~ **Four (4)** conveyors, collectively identified as ID 2; **and**
 - (3) ~~One (1) < 1.0 inch size coke stockpile~~ **Coke storage piles**, with a **total** maximum capacity of ~~4.5~~ **3.0** acreage, identified as ID 2A; **and**.
 - (4) ~~One (1) < 0.5 inch size coke stockpile, with a maximum capacity of 1.5 acreage, identified as ID 2B.~~

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

D.1.2 Particulate Matter (PM and PM₁₀)

~~The Permittee shall use wet suppression to control emissions of PM and PM₁₀ from the vibrating screen, conveyors, stock piles, and roads at all times the process is in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6. If weather conditions preclude the use of wet suppression, the Permittee shall perform moisture content analysis on the coke material to ensure it has a moisture content equal to or greater than twelve (12) percent.~~ **The Permittee shall use wet suppression to control emissions of PM and PM₁₀ from the vibrating screen, conveyors, stock piles, and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6. If weather conditions**

preclude the use of wet suppression, the Permittee shall perform a moisture content analysis to ensure that the moisture content is equal to or greater than twelve (12) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

D.1.4 Record Keeping Requirements

...

- (b) To document compliance with condition D.1.3, the Permittee shall maintain records of visible emission notations of the transfer points. **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).**

...

D.2.4 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

~~The Permittee shall control fugitive particulate matter emissions by spraying the unpaved roads with water on an as-needed basis.~~ **The Permittee shall use wet suppression to control emissions of PM and PM10 from the vibrating screen, conveyors, stock piles, and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure PM and PM10 emissions are less than twenty-five (25) and fifteen (15) tons per year, respectively. If weather conditions preclude the use of wet suppression, the Permittee shall perform a moisture content analysis to ensure that the moisture content is equal to or greater than twelve (12) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.**

D.2.5 Record Keeping Requirements

Pursuant to Minor Source Modification 127-16021-05222, issued May 12, 2003;

- ~~(a) In order to demonstrate compliance with condition D.2.1(a), the Permittee shall maintain records of the diesel fuel usage at Plant 2.~~
- ~~(ba) In order to demonstrate compliance with conditions D.2.1(b), the Permittee shall maintain records of metallurgical coke processed at Plant 2.~~
- (b) To document compliance with Condition D.2.4, the Permittee shall maintain records of the moisture analysis of the coke material.**

...

D.3.1 PSD and ~~Emission Offset~~ **Nonattainment NSR** Minor Limits [326 IAC 2-2] [326 IAC 2-~~32-1.1-5~~]

Pursuant to Minor Source Modification 127-22026-00108, issued December 30, 2005:

- (a) The PM and PM10 emission rates shall not exceed the following:

Emission Unit	PM	PM10
Fugitives	0.19 (lbs/tons of coal)	0.10 (lbs/tons of coal)
Front End Loader	0.39 (lbs/hr)	0.39 (lbs/hr)

- (b) The Permittee shall limit the throughput of coke to the mobile screening unit to less than 243,000 tons per 12 consecutive month period with compliance determined at the end of each month.

Compliance with these limitations renders the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-~~32-1.1-5~~ (~~Emission Offset~~ **Nonattainment NSR**) not applicable.

D.3.4 Particulate Matter (PM and PM₁₀)

Pursuant to Minor Source Modification 127-22026-00108, issued December 30, 2005, the Permittee

~~shall use wet suppression to control emissions of PM and PM10 from the vibrating screen, conveyors, stock piles, and roads at all times the process is in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6. If weather conditions preclude the use of wet suppression, the Permittee shall perform moisture content analysis on the coke material to ensure it has a moisture content equal to or greater than twelve (12) percent.~~ **the Permittee shall use wet suppression to control emissions of PM and PM10 from the vibrating screen, conveyors, stock piles, and roads as necessary to ensure that the coke processed has a moisture content greater than twelve (12) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the applicable provisions of 326 IAC 6. If weather conditions preclude the use of wet suppression, the Permittee shall perform a moisture content analysis to ensure that the moisture content is equal to or greater than twelve (12) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.**

D.3.6 Record Keeping Requirements

- (a) To document compliance with conditions D.3.2 and D.3.5, the Permittee shall maintain records of visible emission notations of the process emission points **that are described in the facility description of this section. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).**

...

SECTION D.4

FACILITY OPERATION CONDITIONS

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

- (h) Main screening plant, identified as Plant 3, constructed in 1968, with a maximum capacity of 23.8 tons per hour of coke, comprised of:
- ...
- (4) ~~six (6)~~ **thirteen (13)** rubber conveyors (ID MS5 thru MS4017), each with a maximum capacity of 42.5 tons per hour of metallurgical coke;
- (5) one (1) front screening plant, consisting of one (1) 12' x 12' feed hopper (ID FS1), one (1) 6' x 12' PEP screen (ID FS2), and five (5) rubber conveyors (ID FS3 thru 7) each with a maximum capacity of 25 tons per hour of metallurgical coke; and
- (6) Coke storage piles with a combined total maximum capacity of 13.7 acres.
- (7) **one (1) bagging operation, constructed in 2005, with a maximum capacity of 75 tons per hour.**

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from Plant 3 shall not exceed ~~34.3 pounds per hour when operating at a process weight rate of 23.8 tons per hour~~ **the following limits:**

- (a) **The one (1) front screening plant, consisting of one (1) 12' x 12' feed hopper (ID FS1), one (1) 6' x 12' PEP screen (ID FS2), and five (5) rubber conveyors (ID FS3 thru 7) each with a maximum capacity of 25 tons per hour of metallurgical coke shall not exceed the following:**

Emission Unit	Process Rate	PM limit
---------------	--------------	----------

Emission Unit	Process Rate	PM limit
Front Screening Plant	25 (tons/hr)	35.43 (lbs/hr)

The pounds per hour limitation was calculated using the following equation:

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

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

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

- (b) **The thirteen (13) rubber conveyors (ID MS5 thru MS17), each with a maximum capacity of 42.5 tons per hour of metallurgical coke and the one (1) bagging operation, constructed in 2005, with a maximum capacity of 75 tons per hour shall not exceed the following:**

Emission Unit	Process Rate	PM limit
Thirteen Rubber Conveyors (ID MS5 thru MS17)	42.5 (tons/hr)	43.08 (lbs/hr)
Bagging Operation	75 (tons/hr)	48.43 (lbs/hr)

The pounds per hour limitation was calculated using 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:

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

D.4.3 Record Keeping Requirements

- (a) To document compliance with condition D.4.2, the Permittee shall maintain records of visible emission notations of the emission points **that are described in the facility description of this section. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).**

...

D.5.4 Record Keeping Requirements

- (a) To document compliance with condition D.5.3, the Permittee shall maintain records of visible emission notations of the emission points **that are described in the facility description of this section. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).**

...

**~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION~~**

**~~Part 70 Operating Permit
Quarterly Report~~**

Source Name: _____ Mid-Continent Coal and Coke
Source Address: _____ U.S. Highway 12, Burns Harbor, Indiana 46304
Mailing Address: _____ 915 W. 175th Street, Homewood, IL 60430
Part 70 Permit No.: _____ T127-7634-00108
Facility: _____ Plant 2 Internal Combustion Engines
Parameter: _____ Diesel Fuel Usage
Limit: _____ No greater than 80 kilo gallons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12-Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

- (6) Sections A.3 and D.2 have been modified to incorporate the new emission units. Sections A.3 and D.2 were also modified to make some of the changes to unit descriptions that were explained in the "Description of Proposed Modification" section. The changes made are as follows:

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

The Mid-Continent Coal and Coke operations consist of the following emission units and pollution control devices located at U.S. Highway 12, Burns Harbor:

- (a) One (1) metallurgical coke screening operation, identified as Plant 1, with a maximum capacity of 50 tons per hour of < 1.0 inch coke, constructed in 1968, with fugitive dust controlled on an as needed basis by water sprays, comprised of the following fugitive dust emitting equipment:

- (1) One (1) vibrating coke screen, identified as ID 1;
- (2) ~~Three (3)~~ **Four (4)** conveyors, collectively identified as ID 2; **and**
- (3) ~~One (1) < 1.0 inch size coke stockpile~~ **Coke storage piles**, with a **total** maximum capacity of ~~4.5~~ **3.0** acreage, identified as ID 2A; ~~and~~.
- (4) ~~One (1) < 0.5 inch size coke stockpile, with a maximum capacity of 1.5 acreage, identified as ID 2B.~~

- (b) One (1) screening operation, identified as Plant 2, with a maximum capacity of 50 tons per

hour of coke, constructed in 2001, comprised of the following equipment:

...

- (4) One (1) internal combustion diesel generator, used to generate electric power, with a maximum capacity of 164 hp (ID PG1) **and a model year of 1995. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit;** and

...

- (d) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-1, rated at 600 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (e) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-2, rated at 400 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (f) One (1) conveyor stacker, including a feed hopper, identified as CS-3, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (g) One (1) conveyor stacker, including a feed hopper, identified as CS-4, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (h) **One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit.**
- (i) **Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]**
Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.
- (j) **One (1) conveyor stacker with permanently attached feed hopper, permitted for construction in 2007, identified as CS-5, rated at 200 tons per hour.**

And the following plant located at 1150 East Boundary Road, Portage:

- ~~(h)~~(k) Main screening plant, identified as Plant 3, constructed in 1968, with a maximum capacity of 23.8 tons per hour of coke, comprised of:

...

- (4) ~~six (6)~~ **thirteen (13)** rubber conveyors (ID MS5 thru MS10**17**), each with a maximum capacity of 42.5 tons per hour of metallurgical coke;
- (5) one (1) front screening plant, consisting of one (1) 12' x 12' feed hopper (ID FS1), one (1) 6' x 12' PEP screen (ID FS2), and five (5) rubber conveyors (ID FS3 thru 7) each with a maximum capacity of 25 tons per hour of metallurgical coke; ~~and~~
- (6) Coke storage piles with a combined total maximum capacity of 13.7 acres; **and**
- (7) **one (1) bagging operation, constructed in 2005, with a maximum capacity of 75 tons per hour.**

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (b) One (1) screening operation, identified as Plant 2, with a maximum capacity of 50 tons per hour of coke, constructed in 2001, comprised of the following equipment:
 - (1) One (1) coke screen (ID PS);
 - (2) Three (3) conveyors (ID PC1 through PC3);
 - (3) One (1) hopper (ID PH1);
 - (4) One (1) internal combustion diesel generator, used to generate electric power, with a maximum capacity of 164 hp (ID PG1) **and a model year of 1995. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit;** and
 - (5) One (1) front-end loader with a diesel internal combustion engine with a maximum capacity of 180 hp (ID PF1).
- (h) **One (1) 125 HP diesel generator, approved for construction in 2007, identified as PG2, with a model year of 1980. Due to the model year, the requirements of 40 CFR 60, Subpart IIII are not applicable to this unit.**

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

SECTION D.5

FACILITY OPERATION CONDITIONS

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

- (d) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-1, rated at 600 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (e) One (1) conveyor stacker, including a feed hopper and integrated feed conveyor, identified as CS-2, rated at 400 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (f) One (1) conveyor stacker, including a feed hopper, identified as CS-3, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (g) One (1) conveyor stacker, including a feed hopper, identified as CS-4, rated at 200 tons per hour. The unit is used for the stockpiling of material and the loading of trucks, **railcars**, barges and ships.
- (j) **One (1) conveyor stacker with permanently attached feed hopper, permitted for construction in 2007, identified as CS-5, rated at 200 tons per hour.**
- ...

D.5.1 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate matter (PM) emissions shall be limited by the following equation for process weight rates in excess of sixty thousand (60,000) pounds per hour:

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

- (a) For conveyor stacker CS-1, with a process weight rate of 600 tons per hour, this equation provides a limit of 71.2 pounds per hour.
- (b) For conveyor stacker CS-2, with a process weight rate of 400 tons per hour, this equation provides a limit of 66.3 pounds per hour.
- (c) For conveyor stackers CS-3, ~~and CS-4~~, **and CS-5** each with a process weight rate of 200 tons per hour, this equation provides a limit of 58.5 pounds per hour for each stacker.

(7) In order to add the rental generators and their specific requirements, Section D.6 was created.

SECTION D.6 FACILITY OPERATION CONDITIONS

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

(i) Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

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

D.6.1 Rental Generators [326 IAC 2-7-10.5] [326 IAC 2-7-12]

The Permittee may remove and replace these rental generators (PG3 and PG4) with another rental generator at any time without prior approval under 326 IAC 2-7-10.5 and 326 IAC 2-7-12, subject to the following conditions:

- (a) only two (2) generators may be installed and operated under this approval (SSM 127-24646-00108 and SPM 127-24855-00108);
- (b) the generators shall not exceed 77 hp each; and
- (c) the generators shall be diesel-fired only.

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

D.6.2 Record Keeping Requirements

- (a) The Permittee shall maintain records of the dates of installation and removal of units PG3 and PG4 as each unit is installed and removed.
- (b) The Permittee shall maintain records of the make, model, horsepower, and model year of each rental diesel generator brought onto the site.
- (c) The Permittee shall maintain records of the fuel type and usage of units PG3 and PG4.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

(8) NSPS Subpart IIII was incorporated in Section E.1 as follows:

SECTION E.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(i) Two (2) rental diesel generators that shall not exceed 77 hp each, permitted for construction in 2007, identified as PG3 and PG4. Under 40 CFR 60, Subpart IIII, the diesel generators PG3 and PG4 are considered to be stationary internal combustion engines. [40 CFR 60, Subpart IIII] [326 IAC 12]

Note: These generators will be installed on an as-needed basis. The model years will vary depending on the rental contract.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for rental diesel generators PG3 and PG4, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the provisions of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, which are incorporated by reference as 326 IAC 12, for rental diesel generators PG3 and PG4 as follows:

Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Source: 71 FR 39172, July 11, 2006, unless otherwise noted.

What This Subpart Covers

§ 60.4200 Am I subject to this subpart?

- (a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.
- (1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:
- (i) 2007 or later, for engines that are not fire pump engines,
- (ii) The model year listed in table 3 to this subpart or later model year, for fire pump engines.
- (2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:
- (i) Manufactured after April 1, 2006 and are not fire pump engines, or
- (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

- (3) **Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.**
- (b) **The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.**
- (c) **If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.**
- (d) **Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.**

§ 60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

- (a) **Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).**
- (b) **Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.**

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

- (a) **Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).**
- (b) **Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.**
- (c) **Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.**

- (d) **Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the Federal Aid Highway System may petition the Administrator for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of paragraphs (a) and (b) of this section. Owners and operators must demonstrate in their petition to the Administrator that there is no other place to use the lubricating oil. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.**

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

- (a) **After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.**
- (b) **After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.**
- (c) **After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.**
- (d) **After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.**
- (e) **After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.**
- (f) **After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.**
- (g) **In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (f) of this section after the dates specified in paragraphs (a) through (f) of this section.**
- (h) **The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.**

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

- (a) **If you are an owner or operator of an emergency stationary CI internal combustion engine, you must install a non-resettable hour meter prior to startup of the engine.**

- (b) **If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.**

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

- (a) **If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.**
- (b) **If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.**
- (1) **Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.**
- (2) **Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.**
- (3) **Keeping records of engine manufacturer data indicating compliance with the standards.**
- (4) **Keeping records of control device vendor data indicating compliance with the standards.**
- (5) **Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.**
- (c) **If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.**
- (d) **If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.**
- (1) **Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.**
- (2) **Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be**

monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

- (i) Identification of the specific parameters you propose to monitor continuously;**
 - (ii) A discussion of the relationship between these parameters and NOX and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NOX and PM emissions;**
 - (iii) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;**
 - (iv) A discussion identifying the methods and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and**
 - (v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.**
- (3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.**
- (e) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.**

§ 60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (d) of this section.

- (a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.**
- (b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.**

- (c) **Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:**

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

- (d) **Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.**

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

- (a) **Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.**
- (1) **Submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.**
- (i) **Name and address of the owner or operator;**
- (ii) **The address of the affected source;**
- (iii) **Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;**
- (iv) **Emission control equipment; and**
- (v) **Fuel used.**
- (2) **Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.**
- (i) **All notifications submitted to comply with this subpart and all documentation supporting any notification.**

- (ii) **Maintenance conducted on the engine.**
- (iii) **If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.**
- (iv) **If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.**
- (b) **If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.**
- (c) **If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.**

§ 60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

§ 60.4219 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Diesel particulate filter means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of “manufacturer” in this section.

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Manufacturer has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for sale or resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means either:

- (1) The calendar year in which the engine was originally produced, or
- (2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Reciprocating internal combustion engine means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

Useful life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

Tables to Subpart IIII of Part 60

Table 1 to Subpart IIII of Part 60.—Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007–2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007–2010 model year engines >2,237 KW (3,000 HP) and with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NO _x	HC	NO _x	CO	PM
KW<8 (HP<11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8≤ KW<19 (11 ≤ HP<25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19≤ KW<37 (25≤ HP<50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37≤ KW<56 (50≤ HP<75)			9.2 (6.9)		
56≤ KW<75 (75≤ HP<100)			9.2 (6.9)		
75≤ KW<130 (100≤ HP<175)			9.2 (6.9)		
130≤ KW<225 (175≤ HP<300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225≤ KW<450 (300≤ HP<600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450≤ KW≤ 560 (600≤ HP≤ 750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Table 2 to Subpart IIII of Part 60.—Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE <37 KW (50 HP) With a Displacement of <10 Liters per Cylinder

[As stated in §60.4202(a)(1), you must comply with the following emission standards]

Engine power	Emission standards for 2008 model year and later emergency stationary CI ICE <37 KW (50 HP) with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)			
	Model year(s)	NO _x + NMHC	CO	PM
KW<8 (HP<11)	2008+	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8≤ KW<19 (11 ≤ HP<25)	2008+	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19≤ KW<37 (25≤ HP<50)	2008+	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

Table 8 to Subpart IIII of Part 60.—Applicability of General Provisions to Subpart IIII

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥ 30 liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device	No	

General Provisions citation	Subject of citation	Applies to subpart	Explanation
	requirements		
§60.19	General notification and reporting requirements	Yes	

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 127-24646-00108 and Significant Permit Modification No. 127-24855-00108. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

Appendix A: Emission Calculations
Summary of the PTE for this Modification

Company Name: Mid-Continent Coal & Coke Company
Address City IN Zip: US Highway 12, Burns Harbor, IN 46304
Significant Source Modification No: 127-24646-00108
Significant Permit Modification No: 127-24855-00108
Plt ID: 127-00108
Reviewer: Robert Henry
Date: December 17, 2007

Pollutant	Potential to Emit	
	Before Controls	After Controls
	(tons/yr)	(tons/yr)
PM	12.76	9.21
PM10	8.89	6.52
SO2	2.51	-
NOx	37.88	-
VOC	3.08	-
CO	8.16	-

**Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Turbine (>250 and <600 HP)
Reciprocating**

**Company Name: Mid-Continent Coal & Coke Company
Address City IN Zip: US Highway 12, Burns Harbor, IN 46304
Significant Source Modification No: 127-24646-00108
Significant Permit Modification No: 127-24855-00108
Plt ID: 127-00108
Reviewer: Robert Henry
Date: December 17, 2007**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity**

MM Btu/hr

1.953000

Emission Factor in lb/MMBtu	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Potential Emission in tons/yr	0.31	0.31	0.29	4.41	0.4	0.95
	2.65	2.65	2.48	37.72	3.08	8.13

B. Emissions calculated based on output rating (hp)

Heat Input Capacity

Horsepower (hp)

279.0

Potential Throughput

hp-hr/yr

2444040.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Potential Emission in tons/yr	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
	2.69	2.69	2.51	37.88	3.07	8.16

Methodology

Potential Throughput (hp-hr/yr) = hp * 8760 hr/yr

Use a conversion factor of 7,000 Btu per hp-hr to convert from horsepower to Btu/hr, unless the source gives you a source-specific brake-specific fuel consumption. (AP-42, Footnote a, Table 3.3-1)

Emission Factors are from AP-42 (Supplement B 10/96), Table 3.3-2

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)

*PM emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**Appendix A: Emission Calculations
PM Emissions
From the Bagging Operation at Plant 3**

Company Name: Mid-Continent Coal & Coke Company
Address City IN Zip: US Highway 12, Burns Harbor, IN 46304
Significant Source Modification No: 127-24646-00108
Significant Permit Modification No: 127-24855-00108
Plt ID: 127-00108
Reviewer: Robert Henry
Date: December 17, 2007

Maximum Throughput Rate:

75 (tons/hr)

Process	Number of Units	Uncontrolled PM Emission Factor (lbs/ton)	PTE of PM (lbs/hr/unit)	PTE of PM (tons/yr)	Uncontrolled PM10 Emission Factor (lbs/ton)	PTE of PM10 (lbs/hr/unit)	PTE of PM10 (tons/yr)
Feeder Hopper*	1	0.0088	0.660	2.89	0.0043	0.323	1.41
Conveyor**	1	0.00014	0.011	0.05	4.60E-05	0.003	0.02
Truck Unloading**	1	0.0001	0.008	0.03	0.0001	0.008	0.03
Total				2.97			1.46

* The PM emission factor for the feeder is the emission factors for low silt batch drop in AP-42, Table 12.5.4 for iron and steel mill (01/95).

** The emission factors for the conveyor and unloading are from AP-42, Chapter 11.19, Table 11.19.2-2 for crushed stone processing operations (08/04).

Note the controlled emission factor for conveyor in Table 11.19.2-2 is used here because the material received at this source has a high moisture content (12%).

Methodology

PTE of PM/PM10 (lbs/hr/unit) = Maximum Throughput (tons/hr) x Emission Factor (lbs/ton)

PTE of PM/PM10 (tons/yr) = PTE of PM/PM10 (lbs/hr/unit) x Number of Units x 8760 hrs/yr x 1 ton/2000 lbs

**Appendix A: Emissions Calculations
PM Emissions from Conveyor Stacker**

**Company Name: Mid-Continent Coal & Coke Company
Address City IN Zip: US Highway 12, Burns Harbor, IN 46304
Significant Source Modification No: 127-24646-00108
Significant Permit Modification No: 127-24855-00108
Plt ID: 127-00108
Reviewer: Robert Henry
Date: December 17, 2007**

Coke Processing Operations (Uncontrolled)

Activity	Capacity (ton/yr)	PM Emission Factor (lb/ton)	Conversion factor	Uncontrolled Emissions (ton/yr)
Unloading Coke	1,752,000 ton/yr x	1.10E-04 lb/ton x	0.0005 ton/lb x	0.10 tons/yr
Conveying	1,752,000 ton/yr x	2.00E-03 lb/ton x	0.0005 ton/lb x	1.75 tons/yr
Loading Coke	1,752,000 ton/yr x	6.00E-03 lb/ton x	0.0005 ton/lb x	5.26 tons/yr
Total Potential to Emit PM =				7.10 tons/yr
Total Potential to Emit PM-10 =				4.74 tons/yr

Coke Processing Operations (Controlled)

Unloading Coke	0.10 tons/yr x	50% emitted after controls =	0.05 tons/yr
Conveying	1.75 tons/yr x	50% emitted after controls =	0.88 tons/yr
Loading Coke	5.26 tons/yr x	50% emitted after controls =	2.63 tons/yr
Total Controlled Potential to Emit PM =			3.55 tons/yr
Total Controlled Potential to Emit PM-10 =			2.37 tons/yr

The source wets the coke to control PM/PM10 emissions. This activity has an estimated 50% control efficiency.

The PM-10 Emission Factor for screening and conveying is 0.04 lb/ton. As a result, potential PM-10 emissions are 66.67% of PM emissions.

The Emission Factors are from FIRE, the AIRS Facility Subsystem Source Classification Codes and AP-42.

Process Weight Rule, $E=55.0 \cdot P^{0.11} - 40$

Process Rate (tons/hour)	Equivalent PM Limit (E) (lbs/hour)
200	58.5