INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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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: July 30, 2007

RE: Mid Continent Coal & Coke Company / 089-24374-00504

FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

Enclosures
FNTV-PMOD.doc 03/23/06

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(800) 451-6027
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Mr. Carl Horst
Mid-Continent Coal and Coke Company
915 W. 175th Street
Homewood, IL 60430

July 30, 2007

Re: 089-24374-00504
First Significant Permit Modification to
Part 70 No.: T089-19852-00504

Dear Mr. Carl Horst:

Mid-Continent Coal and Coke Company was issued a permit on July 19, 2006 for a metallurgical coke screening plant. A letter requesting changes to this permit was received on January 16, 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 emission units including: wheel loaders, conveyors, and generators, and a change in the use of wet suppression for controlling fugitive dust emissions.

All other conditions of the permit shall remain unchanged and in effect. Please find enclosed the entire revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Robert Henry, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, ask for Robert Henry or extension 4-5175, or dial (317) 234-5175.

Sincerely/Original Signed By,

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

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

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Part 70 Operating Permit
OFFICE OF AIR QUALITY

Mid-Continent Coal & Coke Company
3001 Dickey Road
East Chicago, Indiana 46312

(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.: T089-19852-00504	
Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: 7/19/2006 Expiration Date: 7/19/2011

First Significant Permit Modification No.: 089-24374-00504	
Issued by/Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: July 30, 2007 Expiration Date: 7/19/2011

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary metallurgical coke screening plant.

Source Address:	3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address:	915 W. 175th Street, Homewood, IL 60430
General Source Phone Number:	(708)798-1110
SIC Code:	5052
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD, Emission Offset Rules, and Nonattainment NSR Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories under PSD and Emission Offset Rules

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

ISG-Indiana Harbor, Inc. is a fully integrated steelmaking and finishing facility consisting of a source with on-site contractors:

(a) ISG-Indiana Harbor, Inc., (089-00318) the primary operation, is located at, 3001 Dickey Road, East Chicago, Indiana 46312; and

(b) Mid-Continent Coal and Coke, Company (Plant ID 089-00504), the on-site contractor (a metallurgical coke screening plant) is located at 3001 Dickey Road, East Chicago, Indiana 46312;

Separate Part 70 permits will be issued to ISG-Indiana Harbor, Inc. and Mid-Continent Coal and Coke Company, solely for administrative purposes. For permitting purposes, ISG-Indiana Harbor, Inc. is assigned Permit No. T089-7099-00318 and Mid-Continent Coal and Coke Company is assigned Permit No T089-19852-00504 for this permit, T089-21729-05224 and T089-21801-05217 for the other issued Part 70 permits at the two (2) other Mid-Continent Coal and Coke Company on-site contractors located on this site.

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

Mid-Continent Coal and Coke, Company consists of one (1) screening operation, with a maximum capacity of sixty (60) tons per hour, constructed in 2002, comprised of the following equipment:

(a) One (1) coke screen, constructed in 2002;

(b) Six (6) conveyors, constructed in 2002;

(c) One (1) hopper, constructed in 2002;

(d) One (1) Caterpillar 345B MH excavator, rated at 321 HP, constructed in 2002;

(e) One (1) 30" x 80' stacking conveyor, constructed in 2002, and one (1) 30" x 100' stacking conveyor, constructed in 2007, each with a permanently attached feed hopper;

(f) One (1) 110 HP diesel fueled generator, constructed in 2007 and one (1) 50 HP diesel fueled generator, constructed in 2007, both model years are 1999 or prior; and

(g) Caterpillar wheel loaders with each having a four (4) cubic yard bucket and a vehicle weight of 29657 lbs traveling on paved and unpaved roads. Based on calculations, use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions.

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

Mid-Continent Coal and Coke, Company does not currently have any specifically regulated insignificant activities, as defined in 326 IAC 2-7-1(21).

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

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

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, T089-19852-00504, 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 the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

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

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

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

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

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

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

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

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

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

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, 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
Northwest Regional Office phone: (219) 757-0265; fax: (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 T089-24206-00504 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) Incorporated as originally stated,

(2) Revised under 326 IAC 2-7-10.5, or

(3) Deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

(1) That this permit contains a material mistake.

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

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

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

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

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
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][40 CFR 72] [40 CFR 72]

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

(b) 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 (for sources located in NA areas).

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. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

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

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

B.25 Advanced Source Modification Approval [326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]

(a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

(b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.26 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C **SOURCE OPERATION CONDITIONS**

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

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

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

C.5 Fugitive Dust Emissions [326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

(1) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).

(2) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

(3) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

(4) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.

(5) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

(6) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.

(7) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

(8) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.

(9) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(10) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).

(11) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

(12) PM10 emissions from each material processing stack shall not exceed 0.022 grains per dry standard cubic foot and ten percent (10%) opacity

(13) Fugitive particulate matter from the material processing facilities shall not exceed ten percent (10%) opacity

(14) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:

(A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.

(B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(9)).

Material processing facilities include crushers, screens, grinders, mixers, dryers, belt conveyors, bucket elevators, bagging operations, storage bins, and truck or railroad car loading stations.

(b) The Permittee is subject to 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q) (Lake County Particulate Matter Contingency Measures) because it is subject to the requirements of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).

The Permittee shall control fugitive particulate matter emissions according to the Fugitive Dust Control Plan, Attachment A.

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) or 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]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

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

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 shalll 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 or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) Initial inspection and evaluation;

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

(3) Any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

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

(1) Monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) Monitoring data;

(2) Monitor performance data, if applicable; and

(3) Corrective actions taken.

C.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 [326IAC 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 purposes of Part 70 fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
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)) at an existing emissions unit or at a source with Plant-wide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or IAC 2-3-1 (mm)), the Permittee shall comply with following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Mid-Continent Coal and Coke, Company consists of one (1) screening operation, with a maximum capacity of sixty (60) tons per hour, comprised of the following equipment:

(a) One (1) coke screen, constructed in 2002;

(b) Six (6) conveyors, constructed in 2002;

(c) One (1) hopper, constructed in 2002;

(d) One (1) Caterpillar 345B MH excavator, rated at 321 HP, constructed in 2002;

(e) One (1) 30" x 80' stacking conveyor, constructed in 2002, and one (1) 30" x 100' stacking conveyor, constructed in 2007, each with a permanently attached feed hopper;

(f) One (1) 110 HP diesel fueled generator, constructed in 2007 and one (1) 50 HP diesel fueled generator, constructed in 2007, both model years are 1999 or prior; and

(g) Caterpillar wheel loaders with each having a four (4) cubic yard bucket and a vehicle weight of 29657 lbs traveling on paved and unpaved roads. Based on calculations, use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions.

Note: The term "source" in these Part 70 documents refers to the Mid-Continent Coal and Coke Company (089-00504) and ISG Burns Harbor, LLC (089-00318) as one source.

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

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

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

Pursuant to Minor Source Modification 089-16263-00504 issued on July 23, 2003, the Permittee shall limit the throughput of coke to the coke screening operation to less than 121,800 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with this limitation shall ensure that PM and PM10 emissions from the source, including fugitive emissions, including wheel loaders traveling on unpaved roads, storage piles, unloading, screening, conveying, and loading of coal are below twenty five (25) and fifteen (15) tons per year respectively, rendering 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable, and shall ensure that this source modification (No: 089-24206-00504) qualifies as a minor source modification under 326 IAC 2-7-10.5.

D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.1.3 PM and PM10 Control

In order to comply with Condition D.1.1, 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 ten (10) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with Condition D.1.1. If weather conditions preclude the use of wet suppression, the Permittee shall perform moisture content equal to or greater than ten (10) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

D.1.4 Lake County Fugitive Particulate Matter Control Requirements [326 IAC 6.8-10]

Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), opacity from the activities shall be determined as follows:

(a) Paved Roads and Parking Lots
The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

(1) The first will be taken at the time of emission generation.

(2) The second will be taken five (5) seconds later.

(3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(b) Unpaved Roads and Parking
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the fugitive dust control plan.

(c) Batch Transfer
The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.

(d) Continuous Transfer
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. The opacity readings shall be taken at least four (4) feet from the point of origin.

(e) Wind Erosion from Storage Piles
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The limitations may not apply during periods when applications of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

(f) Wind Erosion from Exposed Areas
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.

(g) Material Transported by Truck or Rail
Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the inplant transportation requirement.

(h) Material Transported by Front End Loader or Skip Hoist
Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:

(1) The first will be taken at the time of emission generation.

(2) The second will be taken five (5) seconds later.

(3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(i) Material Processing Limitations
Compliance with all opacity limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 9. Compliance with all visible emissions limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 22. Compliance with all particulate matter limitations from material processing equipments shall be determined using 40 CFR 60, Appendix A, Method 5 or 17.

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

D.1.5 Visible Emissions Notations

(a) Visible emission notations of the exhausts from the hopper, the screen, and the conveyor transfer 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 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 and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.6 Record Keeping Requirements

(a) To document compliance with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the hoppers, the screen, and the conveyor transfer points once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) In order to demonstrate compliance with Conditions D.1.1, the Permittee shall maintain records of coke processed.

(c) To document compliance with Condition D.1.3, the Permittee shall maintain records of the chemical analysis of the metallurgical material.

(d) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements):

The source shall keep the following documentation to show compliance with each of its control measures and control practices:

(1) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.

(2) For each application of water or chemical solution to roadways, the following shall be recorded:

(A) The name and location of the roadway controlled

(B) Application rate

(C) Time of each application

(D) Width of each application

(E) Identification of each method of application

(F) Total quantity of water or chemical used for each application

(G) For each application of chemical solution, the concentration and identity of the chemical

(H) The material data safety sheets for each chemical

(3) For application of physical or chemical control agents not covered by 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1), the following:

(A) The name of the agent

(B) Location of application

(C) Application rate

(D) Total quantity of agent used

(E) If diluted, percent of concentration

(F) The material data safety sheets for each chemical

(4) A log recording incidents when control measures were not used and a statement of explanation.

(5) Copies of all records required by this section shall be submitted to the department within twenty (20) working days of a written request by the department

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

D.1.7 Reporting Requirements

(a) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), a quarterly report shall be submitted, stating the following:

(1) The dates any required control measures were not implemented

(2) A listing of those control measures

(3) The reasons that the control measures were not implemented

(4) Any corrective action taken

(b) A quarterly summary of the information to document compliance with Conditions D.1.1(a) and D.1.1(b) submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

(c) These reports shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

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

Source Name: Mid-Continent Coal & Coke Company
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
Part 70 Permit No.: T089-19852-00504

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 & Coke Company
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
Part 70 Permit No.: T089-19852-00504

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, PM10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Mid-Continent Coal & Coke Company
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
Part 70 Permit No.: T089-19852-00504
Facility:
Parameter:
Limit:

QUARTER : 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 & Coke Company
Source Address: 3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address: 915 W. 175th Street, Homewood, IL 60430
Part 70 Permit No.: T089-19852-00504

Months: _____ to _____ Year: _____

Page 1 of 2

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".	
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

ATTACHMENT A

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

Mittal Steel USA Indiana Harbor West: Main Coke Screening Plant
Plant ID Number T089-19852-00504

Primary Contact
Carl Horst
Manager of Operations
915 W. 175th Street
Homewood, IL 60430
(708) 798-1110
Off-hours Number (708) 267-7198

Roadway Control

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.
4) of operation to determine if dust suppression is required.
5) Water sprays from a Mittal-contracted water truck is used as needed to wet down unpaved areas.

Fines Stockpile Control Measures

1) Front-end loader bucket drop height during screening and truck loading is kept to the lowest practical elevation.
2) Water is applied to fines stockpile 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.

Unscreened Coke Control

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

1) Water sprays may be applied to the source pile 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.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name:	**Mid-Continent Coal & Coke Company, a contractor of ISG Indiana Harbor, Inc.**
Source Location:	**3001 Dickey Road, East Chicago, IN 46312**
County:	**Lake**
SIC Code:	**5052**
Operation Permit No.:	**T089-19852-00504**
Operation Permit Issuance Date:	**July 19, 2006**
Minor Source Modification No.:	**089-24206-00504**
Significant Permit Modification No.:	**089-24374-00504**
Permit Reviewer:	**Robert Henry**

Source Definition

This fully integrated steelmaking and finishing facility consists of a source with an on-site contractor:

(a) ISG Indiana Harbor, Inc., (089-00318), the primary operation, is located at 3001 Dickey Road, East Chicago, Indiana 46312; and

(b) Mid-Continent Coal and Coke Company (Plant ID 089-00504), the supporting operation, is located at 3001 Dickey Road, East Chicago, Indiana 46312.

In order to consider both plants as one single source, all three of the following criteria must be met:

(1) The plants must have common ownership/control;
(2) The plants must have the same SIC code or a support relationship; and
(3) The plants must be located on contiguous or adjacent properties.

IDEM has determined that ISG Indiana Harbor, Inc. and Mid-Continent Coal and Coke Company are under the common control of ISG Indiana Harbor, Inc., and therefore, will be considered one source, as defined by 326 IAC 2-7-1(22), based on this contractual control. Therefore, the term “source” in the Part 70 documents refers to both ISG Indiana Harbor, Inc. and Mid-Continent Coal and Coke Company as one source.

Separate Part 70 permits have been issued to ISG-Indiana Harbor, Inc. and Mid-Continent Coal and Coke Company, solely for administrative purposes. For permitting purposes, ISG-Indiana Harbor, Inc. is assigned Permit No. 089-7099-00318 and Mid-Continent Coal and Coke Company, is assigned Permit No T089-19852-00504 for this permit, T089-21729-05224 and T089-21801-05217 for the other issued Part 70 permits at the two (2) other Mid-Continent Coal and Coke Co on-site contractors located on this site.

Existing Approvals

The source was issued Part 70 Operating Permit No. T089-19852-00504 on July 19, 2006.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM	Attainment
PM10	Attainment
PM2.5	Nonattainment
SO_2	Attainment
NO_x	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

On October 25,2006, the Indiana Air Pollution Control Board approved a permanent rule revision to incorporate changes into 326 IAC 1-4-1 which revoked the 1-hour Ozone standard.

(a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for 8-hour ozone standard. Therefore, VOC and NO_x 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 Lake County as nonattainment for PM2.5. 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 PM2.5 emissions pursuant to the requirements of Nonattainment NSR, 326 IAC 2-1.1-5.

(c) Lake County has been classified as attainment or unclassifiable for CO, Lead, NO_x, PM, and PM10. 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 an iron and steel mill plant, 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 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	Potential To Emit (tons/year)
PM	greater than 100
PM10	greater than 100
PM2.5	greater than 100
SO_2	greater than 100
VOC	greater than 100
CO	greater than 100
NO_x	greater than 100
Total HAPs	greater than 25

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

(b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because NOx, a precursor for ozone and a nonattainment regulated pollutant, is emitted at a rate of 100 tons per year or more. This source is a major stationary source under nonattainment NSR rules (326 IAC 2-1.1-5) since PM10, a surrogate for PM2.5, is emitted at a rate of 100 tons per year or more.

(c) These emissions are based upon calculations provided by the source and verified by IDEM as part of the Part 70 Operating Permit Application.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Mid-Continent Coal & Coke Company on January 16, 2007, relating to the change in the length of two (2) conveyors, removal of one (1) generator, addition of two (2) generators, removal of two (2) wheel loaders, addition of four (4) wheel loaders, and the frequency required for wet suppression to control emissions of fugitive dust. The following is a list of the proposed changes to the emission units and pollution control devices:

1) The Responsible Official was updated. IDEM no longer identifies the Responsible Official in the permits, but will retain the updated Responsible Official name in OAQ's permit tracking system.

2) All IDEM, OAQ addresses have been updated by adding the mail codes.

3) The following changes have been requested in Section A.3 Emission Units and Pollution Control Equipment Summary as well as the related facility descriptions listed in D.1.

(d) change in the length of the stacking conveyors to one (1) 30” x 80’ and one (1) 30” x 100’ stacking conveyors with permanently attached feed hoppers;

(e) removal of one (1) 165 HP diesel generator, and the addition of one (1) 110 HP diesel fueled generator and one (1) 50 HP diesel fueled generator;

(f) removal of the two (2) existing Caterpillar wheel loaders and the addition of multiple Caterpillar wheel loaders, each of which has a four (4) cubic yard bucket and a vehicle weight of 29657 lbs traveling on paved and unpaved roads. Based on calculations, use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions with the limited conveyor throughput;

4) Condition D.1.3 requires the Permittee to use wet suppression to control emissions of PM and PM10 at all times the processes are in operation. As requested by the Permittee, this condition has been modified to state that wet suppression is to be used as necessary to ensure the coke processed has a moisture content of greater than 10 percent.

Enforcement Issues

IDEM is aware that equipment has been constructed and/or 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 document for detailed emission calculations.

Assuming 8760 hours of operation, the annual maximum usage of diesel fuel for the two (2) generators is 117,728 gallons. Upon further review, IDEM has determined that tailpipe NO_x and SO_2 emissions from the wheel loaders are not regulated under air permitting rules. So, given that only the tailpipe emissions from the diesel generators (and not wheel loaders) are going to be regulated, even at 8760 hours of operation, maximum diesel usage is below the existing limit of 367,540 gallons per twelve (12) consecutive month period. Therefore, the fuel usage limit in Condition D.1.1 has been deleted, as shown in the Section titled "Proposed Changes."

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	PTE for this modification (tons/year)
PM	14.74
PM10	5.68
SO_2	1.44
VOC	1.73
CO	4.68
NO_X	21.72

This minor source modification is subject to 326 IAC 2-7-10.5(d) the following modifications shall be processed in accordance with subsection (e): (1) Modifications that would reduce the frequency of any monitoring or reporting required by a permit condition or applicable requirement. (2) The addition of a portable source or relocation of a portable source to an existing source if the addition or relocation would require a change to any permit terms or conditions. (3) Modifications that would have a potential to emit within any of the following ranges: (A) Less than twenty-five (25) tons per year and equal to or greater than five (5) tons per year of either particulate matter (PM) or particulate matter less than ten (10) microns (PM10). (B) Less than twenty-five (25) tons per year and equal to or greater than ten (10) tons per year of the following pollutants: (i) Sulfur dioxide (SO2), (ii) Nitrogen oxides (NOx), (iii) Volatile organic compounds (VOC) for modifications that are not described in clause (C). (C) Less than twenty-five (25) tons per year and equal to or greater than five (5) tons per year of volatile organic compounds (VOC) for modifications that require the use of air pollution control equipment to comply with the applicable provisions of 326 IAC 8. (D) Less than one hundred (100) tons per year and equal to or greater than twenty-five (25) tons per year of carbon monoxide (CO).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)(1), because this modification involves significant changes to existing permit terms and conditions, including record keeping for fuel usage at this source.

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 source modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit (tons/year)					
Process/Emission Unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**
Transporting -Wheel Loaders	0.75	0.19	------	------	------	------
Conveying	1.69	0.85	------	------	------	------
Combustion Engines -Generators	1.54	1.54	1.44	1.73	4.68	21.72
Total for Modification	3.98	2.58	1.44	1.73	4.68	21.72
Significant Level	25	15	40	40	100	40

Lake County has been designated as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled “Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas” authored by Steve Page, Director of OAQPS, until EPA promulgates the PM2.5 major NSR regulations, states should assume that a major stationary source’s PM10 emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 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 Company has limited the potential to emit of PM10 from the modification to less than fifteen (15) tons per year. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-1.1-5 does not apply for PM2.5.

Since this source is considered a major PSD source and the unrestricted potential to emit of this modification is greater than twenty-five (25) tons of PM per year and fifteen (15) tons of PM10 per year, this source has elected to limit the potential to emit of this modification as follows:

The Permittee shall limit the throughput of coke to the screening unit to less than one hundred twenty-one thousand eight hundred (121,800) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with this limit will ensure that PM emissions from the source (Mid-Continent Coal & Coke, plant I.D. No.: 089-00504) are less than twenty-five (25) tons per year and PM10 emissions from the source (Mid-Continent Coal & Coke, plant I.D. No.: 089-00504) are less than fifteen (15) tons per year. Compliance with these limitations renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable.

The Permittee has provided information as part of the application for this approval that based on Actual to Projected Actual test in 326 IAC 2-3-2 this modification at a major stationary source will not be major for Prevention of Significant Deterioration under 326 IAC 2-2-1 and Emission Offset under 326 IAC 2-3-1. IDEM, OAQ has not reviewed this information and will not be making any determination in this regard as part of this approval. The applicant will be required to keep records and report in accordance with Source obligation in 326 IAC 2-2-8 and Applicability in 326 IAC 2-3-2.

Federal Rule Applicability Determination

The following federal rules are not applicable to the source for this modification:

(a) There are no changes in the applicabilities of New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) and National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) as a result of this modification. The 110 HP and 50 HP diesel fueled generators were installed in 2007, but are model year 1999 and older. Therefore, the NSPS for stationary internal combustion engines (40 CFR 60, Subpart IIII) is not applicable.

(b) 40 CFR 64, Compliance Assurance Monitoring (CAM) is not included in this permit. In order for this rule to apply, a specific emissions unit must meet three criteria for a given pollutant: 1) the unit is subject to an emission limitation or standard for the applicable regulated air pollutant, 2) the unit uses a control device to achieve compliance with any such emission limitation or standard, and, 3) the unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount required for a source to be classified as a major source. These new emission units do not use a control device to comply with applicable emission limitations. Therefore, the new emission units are not subject to the requirements of CAM.

State Rule Applicability Determination

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

326 IAC 2-2, 2-3, and 2-1.1-5 (PSD, Emission Offset, and Nonattainment NSR)
PSD, Emission Offset, Nonattainment NSR applicability is discussed under the Permit Level Determination - PSD and Emission Offset section.

326 IAC 2-6 (Emission Reporting)
Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2007, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3, sources that are subject to 326 IAC 6-1 (which has been replaced by 326 IAC 6.8) are exempt from the requirements of 326 IAC 6-3. Therefore, 326 IAC 6-3 does not apply to any of the new emission units.

Compliance Determination and Monitoring Requirements

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this does occur, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also 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.

Mid-Continent Coal and Coke, Company has applicable compliance determination and monitoring conditions as specified below:

(a) The Permittee shall control PM and PM10 as follows:

(1) 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 ten (10) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with Condition D.1.1. If weather conditions preclude the use of wet suppression, the Permittee shall perform moisture content equal to or greater than ten (10) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

(2) The Permittee shall control emissions of PM and PM10 from the wheel loaders on paved and unpaved roads by implementation of a work program and work practice under the fugitive dust control plan, Attachment A.

(b) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), opacity from the activities shall be determined as follows:

(1) Paved Roads and Parking Lots
The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

(A) The first will be taken at the time of emission generation.

(B) The second will be taken five (5) seconds later.

(C) The third will be taken five (5) seconds later or ten (10) seconds after the

first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(2) Unpaved Roads and Parking
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practices under the fugitive dust control plan.

(3) Batch Transfer
The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.

(4) Continuous Transfer
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. The opacity readings shall be taken at least four (4) feet from the point of origin.

(5) Wind Erosion from Storage Piles
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The limitations may not apply during periods when application of fugitive particulate control measures is either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

(6) Wind Erosion from Exposed Areas
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.

(7) Material Transported by Truck or Rail
Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the in plant transportation requirement.

(8) Material Transported by Front End Loader or Skip Hoist
Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:

(A) The first will be taken at the time of emission generation.

(B) The second will be taken five (5) seconds later.

(C) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

(9) Material Processing Limitations
Compliance with all opacity limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 9. Compliance with all visible emissions limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 22. Compliance with all particulate matter limitations from material processing equipments shall be determined using 40 CFR 60, Appendix A, Method 5 or 17.

(c) Visible emission notations of the exhausts from the hoppers, the screens, and the conveyor transfer points shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C- Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C- Response to Excursions or Exceedances shall be considered a deviation from this permit.

These compliance determination and compliance monitoring requirements are necessary to ensure that PM and PM10 emissions (including fugitive emissions) from the Mid-Continent Coal and Coke Company are limited to less than 25 and 15 tons per year, respectively, rendering 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 089-19852-00504. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

1) IDEM no longer identifies the Responsible Official in Condition A.1 of the permit. Condition A.3 has been changed to reflect the emission units in this modification. Condition A.4 was changed to clarify the statement related to insignificant activities. Therefore, IDEM made the following revisions:

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

The Permittee owns and operates a stationary metallurgical coke screening plant.

~~Responsible Official:~~	~~Manager of Operations~~
Source Address:	3001 Dickey Road, East Chicago, Indiana 46312
Mailing Address:	915 W. 175th Street, Homewood, IL 60430
General Source Phone Number:	(708)798-1110
SIC Code:	5052
County Location:	Lake

Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD, ~~and~~ Emission Offset, **and Nonattainment NSR Major Source** Rules**,** Section 112 of the Clean Air Act 1 of 28 Source Categories under PSD and Emission Offset Rules

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

Mid-Continent Coal and Coke, Company consists of one (1) screening operation, with a maximum capacity of sixty (60) tons per hour, ~~constructed in 2002,~~ comprised of the following equipment:

(a) One (1) coke screen, constructed in 2002;

(b) Six (6) conveyors, constructed in 2002;

(c) One (1) hopper, constructed in 2002; and

~~(d) One (1) front-end loader with a diesel internal combustion engine with a maximum capacity of 180 hp.~~

~~(e) Two (2) 30" X 80" long stacking conveyors with permanently attached feed hoppers~~

~~(f) One (1) 165 HP diesel generator~~

~~(g) Two (2) Caterpillar 972G wheel loaders, each rated at 265 HP~~

~~(h)~~ **(d)** One (1) Caterpillar 345B MH excavator, rated at 321 HP, constructed in 2002;

(e) One (1) 30" x 80' stacking conveyor, constructed in 2002, and one (1) 30" x 100' stacking conveyor, constructed in 2007 with permanently attached feed hoppers;

(f) One (1) 110 HP diesel fueled generator, constructed in 2007 and one (1) 50 HP diesel fueled generator, constructed in 2007, both model years are 1999 or prior;

(g) Caterpillar wheel loaders with each having a four (4) cubic yard bucket and a vehicle weight of 29657 lbs traveling on paved and unpaved roads. Based on calculations, use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions with the limited throughput;

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

Mid-Continent Coal and Coke, Company does not currently have any **specifically regulated** insignificant activities, as defined in 326 IAC 2-7-1(21).

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

And

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

And

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

And

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

And

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

And

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

3) In order to clarify some permit conditions, Section B has been updated as follows:

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

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

(c) ~~A~~ **The** "responsible official" is defined at 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
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.11 Emergency Provisions [326 IAC 2-7-16]

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, **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
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267**.**

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

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

4) The following changes have been made in Section C to incorporate the Fugitive Dust Control Plan and to update Condition C.3 (since 326 IAC 9-1-2 has been SIP approved and is now federally enforceable).

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

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

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 6.8-10-3]

(a) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

(1) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).

(2) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

(3) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

(4) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.

(5) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

(6) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.

(7) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

(8) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.

(9) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(10) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).

(11) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

(12) PM10 emissions from each material processing stack shall not exceed 0.022 grains per dry standard cubic foot and ten percent (10%) opacity

(13) Fugitive particulate matter from the material processing facilities shall not exceed ten percent (10%) opacity

(14) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:

(A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.

(B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(9)).

Material processing facilities include crushers, screens, grinders, mixers, dryers, belt conveyors, bucket elevators, bagging operations, storage bins, and truck or railroad car loading stations.

(b) The Permittee is subject to 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q) (Lake County Particulate Matter Contingency Measures) because it is subject to the requirements of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, Attachment A.

5) The Clean Unit and Pollution Control Project provisions of the U.S. EPA's NSR Reform rules were vacated on June 24, 2005 by a United States Court of Appeals for the District of Columbia. This decision has remanded the "reasonable possibility" standard back to U.S. EPA. In order to reflect these changes, Condition C.18 has been changed as follows:

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

(a) 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 (or at a source with Plant-wide Applicability Limitation (PAL)), which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1 (z) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" as defined in 326 IAC 2-2-1 (rr) and/or 326 IAC 2-3-1 (mm), the Permittee shall comply with following~~:

(c) If there is a "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3 (ll)) at an existing emissions unit or at a source with 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 IAC 2-3-1 (mm)), the Permittee shall comply with following:

6) The following requested changes have been made Section D.1 Facility Operation Conditions.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:
Mid-Continent Coal and Coke, Company consists of one (1) screening operation, with a maximum capacity of sixty (60) tons per hour, ~~constructed in 2002,~~ comprised of the following equipment:

(a) One (1) coke screen, constructed in 2002;

(b) Six (6) conveyors, constructed in 2002;

(c) One (1) hopper, constructed in 2002; and

~~(d) One (1) front-end loader with a diesel internal combustion engine with a maximum capacity of 180 hp.~~

~~(e) Two (2) 30" X 80" long stacking conveyors with permanently attached feed hoppers~~

~~(f) One (1) 165 HP diesel generator~~

~~(g) Two (2) Caterpillar 972G wheel loaders, each rated at 265 HP~~

~~(i)~~ **(d)** One (1) Caterpillar 345B MH excavator, rated at 321 HP, constructed in 2002;

(e) One (1) 30" x 80' stacking conveyor, constructed in 2002, and one (1) 30" x 100' stacking conveyor, constructed in 2007 with permanently attached feed hoppers;

(f) One (1) 110 HP diesel fueled generator, constructed in 2007 and one (1) 50 HP diesel fueled generator, constructed in 2007, both model years are 1999 or prior;

(g) Caterpillar wheel loaders with each having a four (4) cubic yard bucket and a vehicle weight of 29657 lbs traveling on paved and unpaved roads. Based on calculations, use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions with the limited throughput;

7) Pursuant to Title II of the Clean Air Act, Condition D.1.1 has been changed since wheel loader tailpipe emissions are not regulated under air permitting rules. The fuel usage limit included in Condition D.1.1 is not necessary, since the unrestricted potential to emit of NOX, CO, VOC, and SO2 from the generators at this plant are below PSD and Emission Offset significant levels. Assuming 8760 hours of operation, the annual maximum usage of diesel fuel for the two (2) generators is 117,728 gallons. Upon further review, IDEM has determined that tailpipe NO_x and SO_2 emissions from the wheel loaders are not regulated under air permitting rules. So, given that only the tailpipe emissions from the diesel generators (and not wheel loaders) are going to be regulated, even at 8760 hours of operation, maximum diesel usage is below the existing limit of 367,540 gallons per twelve (12) consecutive month period. Therefore, the fuel usage limit in Condition D.1.1 has been removed.

D.1.1 PSD, ~~Emission Offset,~~ and **Nonattainment NSR Limits** [326 IAC 2-2] ~~[326 IAC 2-3]~~ **[326 IAC 2-1.1-5]**

~~(a)~~ Pursuant to Minor Source Modification 089-16263-05224 issued on July 23, 2003, the Permittee shall limit the throughput of coke to the coke screening operation to less than 121,800 tons per twelve (12) consecutive month period with compliance determined at the end of each month. ~~This is equivalent to PM emissions of 18.27 tons per year and PM10 emissions of 12.18 tons per year.~~

~~(b) The diesel fuel usage to the diesel generator, front-end loader, wheel loaders and excavator shall be limited to 367,540 gallons per twelve (12) consecutive month period. Compliance with this limit will assure that the NO_x, CO, VOC and SO2 emissions from the coke screening operation shall remain less than the significant level. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) do not apply.~~

~~These limitations, in combination with fugitive emissions renders 326 IAC 2-2, 326 IAC 2-3 and 326 IAC 2-1.1-5 not applicable.~~

Compliance with this limitation shall ensure that PM and PM10 emissions from the entire source including fugitive emissions (wheel loaders traveling on unpaved roads, storage piles, unloading, screening, conveying, and loading of coal) are below twenty five (25) and fifteen (15) tons per year respectively, rendering 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable, and shall ensure that this Source Modification No: 089-24206-00504 qualifies as a minor source modification under 326 IAC 2-7-10.5.

8) Condition D.1.3 has been changed as requested by the Permittee in order to clarify that wet suppression is not required under weather conditions that preclude the use of this control measure. Also, Condition D.1.3(b) has been added to implement the fugitive dust control plan into PM and PM10 control requirements.

D.1.3 PM and PM10 Control

~~In order to comply with Conditions D.1.1 (a), the Permittee shall use wet suppression to control emissions of PM and PM10 from the hoppers, the screen, and the conveyors at all times these emission units are in operation. The suppressant shall be applied in a manner and at a frequency sufficient to render the requirements of 326 IAC 2-2 and 326 IAC 2-3 not applicable. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the metallurgical material to ensure it has a moisture content of greater than ten (10) percent. The method for moisture content analysis shall be approved by IDEM, OAQ.~~

In order to comply with Condition D.1.1, 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 ten (10) percent. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with Condition D.1.1. 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 ten (10) percent. The method for the moisture content analysis shall be approved by IDEM, OAQ.

9) In order to correct the reference to D.1.1(b), which has been removed, Condition D.1.6 has been changed. Also, in order to clarify Condition D.1.6(a), the following changes were made:

D.1.6 Record Keeping Requirements

(a) To document compliance with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the hoppers, the screen, and the conveyor transfer points once per day. **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).**

(b) In order to demonstrate compliance with Conditions D.1.1 ~~(a)~~, the Permittee shall maintain records of coke processed.

~~(c) In order to demonstrate compliance with Conditions D.1.1 (b), the Permittee shall maintain records of the diesel fuel usage.~~

~~(d)~~**(c)** To document compliance with Condition D.1.3, the Permittee shall maintain records of the chemical analysis of the metallurgical material.

~~(c)~~**(d)** Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements):

10) Due to the changes in Condition D.1.1, Condition D.1.7(b) has been changed as follows:

D.1.7 Reporting Requirements

(a) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), a quarterly report shall be submitted, stating the following:

(1) The dates any required control measures were not implemented

(2) A listing of those control measures

(3) The reasons that the control measures were not implemented

(4) Any corrective action taken

(b) A quarterly summary of the information to document compliance with Conditions D.1.1 ~~(a)~~ submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No.: 089-24206-00504 and Part 70 Significant Permit Modification No.: 089-24374-00504. The staff recommends to the Commissioner that this Part 70 Minor Source Modification and Part 70 Significant Permit Modification be approved.

Appendix A: Emissions Calculations
Internal Combustion Engines - Diesel Fuel
<250 Hp Reciprocating

Company Name: Mid-Continent Coal & Coke
Significant Permit Modification Number: 089-24374-00504
Minor Source Modification Number: 089-24206-00504
Plt ID: 089-00504
Reviewer: Robert Henry
Date: 2/7/2007

	Output (hp)	hp-hr/yr
Generators	160.0	1401600

Pollutant

	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	2.20E-03	2.20E-03	2.05E-03	3.10E-02	2.47E-03	6.68E-03
Potential Emission in tons/yr	1.54	1.54	1.44	21.72	1.73	4.68

Methodology

hp-hr/yr = hp * 8760 hr/yr
Emission Factors are from AP 42, Chapter 3.3, Table 3.3-1, SCC #2-02-001-02 and 2-03-001-01
Emission (tons/yr) = (hp-hr/yr) x Emission Factor (lb/hp-hr)/2,000 lb/ton

Appendix A: Emissions Calculations
PM Emissions Calculations
Unpaved Roads - Transporting with wheel loaders

Company Name: Mid-Continent Coal and Coke Company
Significant Permit Modification Number: 089-24374-00504
Minor Source Modification Number: 089-24206-00504
Plant ID: 089-00504
Reviewer: Robert Henry
Date: 2/7/2007

* * unpaved roads - transporting with wheel loaders * *

Estimated Maximum Production - Unlimited (tons/yr)	Product Weight (tons/round trip)	Round Trips/Yr	Miles per Round Trip	Vehicle Miles Traveled (VMT)/yr	Mean Weight (tons)
525,600	0.91	575,369	0.0284	16340.49	14.83

Estimated Maximum Production - Limited (tons/yr)	Product Weight (tons/round trip)	Round Trips/Yr	Miles per Round Trip	Vehicle Miles Traveled (VMT)/yr	Mean Weight (tons)
121,800	0.9135	133,333	0.0284	3786.67	14.83

Pollutant	**Emission Factor (E)**	**Emissions (unlimited) (tpy)**	**Emissions (limited) (tpy)**	**Emissions (limited) (lb/hr)**
PM	5.30	43.27	10.03	2.29
PM10	1.35	11.03	2.56	0.58

The source waters the unpaved roads resulting in an estimated 90% PM control efficiency.
The following calculation determines the amount of emissions created by unpaved roads,
Equation and values from AP-42 Chp. 13.2.2 (Fifth Edition, 12/03)

Eq. 1a: E = k*[(s/12)^a]*[(W/3)^b]

where E =	calc.	site specific emission factor (lb/VMT)
k =	1.5	particle size multiplier (k=4.9 for PM-30 or TSP, k=1.5 for PM-10)
s =	4.8	mean % silt content of unpaved roads (provide by source)
a =	0.9	empirical constant (a= 0.7 for PM-30 or TSP, a=0.9 for PM-10)
b =	0.45	empirical constant (b= 0.45 for PM-30 or TSP and PM-10)
W =	14.83	mean vehicle weight (tons)

Methodology

PM Emissions (tpy) = PM Emission Factor (E) * Vehicle Miles Traveled /yr/2000
PM10 Emissions (tpy) = PM10 Emission Factor (E) * Vehicle Miles Traveled /yr/2000
Limited PM (lb/ton of coke) from Transporting = 2.29 lb/hr ÷ 13.9 tons of coke/hr = 0.16 lb/ton of coke
Limited PM10 (lb/ton of coke) from Transporting = 0.58 lb/hr ÷ 13.9 tons of coke/hr = 0.04 lb/ton of coke

Appendix A: Emissions Calculations
PM Emissions from Coke Handling

Company Name: Mid-Continent Coal and Coke Company
Significant Permit Modification Number: 089-24374-00504
Minor Source Modification Number: 089-24206-00504
Plant ID: 089-00504
Reviewer: Robert Henry
Date: 2/7/2006

Fugitive Emissions from Storage Piles

Storage emissions, which result from wind erosion, are determined by the following calculations:

Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
= 5.67 lb/acre/day
where s = 4.9 % silt content of material
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph

Storage capacity (sc) of site (tons) = (# acres)*(43560 sqft/acre)*(25 ft high)*(1/40 ton/cuft)
Storage capacity (sc) of site (tons) = 27225

Ep (storage) = Ef*sc*(40 cuft/ton)*365 day/yr /(2000 lb/ton * 43560 sqft/acre * 25 ft)
where sc = 27,225 tons storage capacity
Ep = 1.04 tons/yr Note: PM = PM-10 Emissions

The following calculations determine the amount of emissions created by pile disturbance from truck loading, based on 8760 hours of use and AP-42, Ch 13.2.4 (Fifth edition, 1/95).

Truck Loading Operations Disturbance of Finished Coke Piles

E = k*(0.0032)* ((U/5)^1.3)/((M/2)^1.4)
where k = particle size multiplier (k=0.74 for PM, k=0.35 for PM-10)
U = 12 mile/hr mean wind speed
M = 15 % material moisture content

Emission Factor (E) PM =	4.401E-04
Emission Factor (E) PM-10 =	2.082E-04

PM Emissions (tpy) = Thorughput (tpy) * Emissions Factor (E) PM Throughput (tpy)limited 525,600
PM-10 Emissions (tpy) = Thorughput (tpy) * Emissions Factor (E) PM-10 Throughput (tpy)limited 121,800

PM Emissions-No Limit (tpy) =	0.12	PM Emissions-Limited (tpy) =	0.03
PM-10 Emissions-No Limt (tpy) =	0.05	PM-10 Emissions-Limted (tpy) =	0.01

Total Emissions from Storage Piles With no Limit	
PM	**1.15**
PM-10	**1.09**

Total Emissions from Storage Piles With Limit (tons coke)	
PM	**1.06**
PM-10	**1.05**

Appendix A: Emissions Calculations
PM/PM-10 Emissions from New Emission Units

Company Name: Mid-Continent Coal and Coke Company
Significant Permit Modification Number: 089-24374-00504
Minor Source Modification Number: 089-24206-00504
Plant ID: 089-00504
Reviewer: Robert Henry
Date: 2/7/2007

** PM emissions before controls **

Transporting-Wheel Loaders			** see page 2 **					10.03	tons/yr
[3] Conveying	121,800	ton/yr x	0.026	lb PM/ton	x	1/2000	ton/lb =	3.17	tons/yr
Combustion Engines			** see page 1 **					1.54	tons/yr
Total Emission Before Controls and after Limitations:								**14.74**	

** PM-10 emissions before controls **

Transporting-Wheel Loaders			** see page 2 **					2.56	tons/yr
[3] Conveying	121,800	ton/yr x	0.013	lb PM/ton	x	1/2000	ton/lb =	1.58	tons/yr
Combustion Engines			** see page 1 **					1.54	tons/yr
Total Emission Before Controls and after Limitations:								**5.68**	

** PM emissions after controls and limitations (controls shown as percentages)**

Transporting-Wheel Loaders			** see page 2 **			10%	=	1.00	tons/yr
[3] Conveying	121,800	ton/yr x	0.026	x	1/2000	50%	=	1.58	tons/yr
Combustion Engines			** see page 1 **					1.54	tons/yr
Total Emission After Controls and Limitations:								**4.13**	**tons/yr**

** PM-10 emissions after controls and limitations (controls shown as percentages)**

Transporting-Wheel Loaders			** see page 2 **			10%	=	0.26	tons/yr
[3] Conveying	121,800	ton/yr x	0.013	x	1/2000	50%	=	0.79	tons/yr
Combustion Engines			** see page 1 **					1.54	tons/yr
Total Emission After Controls and Limitations:								**2.59**	**tons/yr**

PM Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput): **0.06**
= PM Fugitive Emissions After Controls and Limitations (lb/yr)/Coke throughput (ton/yr)
PM10 Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput): **0.20**
=(PM10 Emissions (15 ton/yr)*2000(lb/tons) - PM10 Combustion Emissions (lb/yr)) / Coke throughput (ton/yr)

Methodology

[1] The uncontrolled emission factor for the loading and unloading is the one for low silt batch drop from iron and steel mills. (AP-42, Chapter 12.5, Table 12.5.4 (10/86)).
[2] Uncontrolled emission factor for fines screening from AP-42, Chapter 11.19.2 (Crushed Stone Processing Operations), Table 11.19.2-2 (08-04). 1 screening unit is included in the calculation.
[3] Uncontrolled emission factor for conveying from AP-42, Chapter 12.5, Table 12.2.4 (10/86)), and assumes all material is conveyed and transferred twice.

Appendix A: Emissions Calculations
PM/PM-10 Emissions from Coke Processing

Company Name: Mid-Continent Coal and Coke Company
Significant Permit Modification Number: 089-24374-00504
Minor Source Modification Number: 089-24206-00504
Plant ID: 089-00504
Reviewer: Robert Henry
Date: 2/7/2007

** PM emissions before controls and throughput limitations**

Transporting			** see page 2 **						43.27	tons/yr	
Storage Piles			** see page 3 **						1.15	tons/yr	
1) Unloading Coke	525,600	ton/yr x	0.0088	lb PM/ton	x	1/2000	ton/lb	=	2.31	tons/yr	
2) Screening - Single Deck	525,600	ton/yr x	0.3	lb PM/ton	x	1/2000	ton/lb	=	78.84	tons/yr	
3) Conveying	525,600	ton/yr x	0.026	lb PM/ton	x	1/2000	ton/lb	=	13.67	tons/yr	
1) Loading Coke	525,600	ton/yr x	0.0088	lb PM/ton	x	1/2000	ton/lb	=	2.31	tons/yr	
Total Noncombustion Emissions Before Controls and Limitations:									*141.55*	*tons/yr*	32.32 lb/hr
Combustion Engines			** see page 1 **						1.54	tons/yr	
Total Emission Before Controls and Limitations:									**143.09**	**tons/yr**	

** PM-10 emissions before controls and throughput limitations**

Transporting			** see page 2 **						11.03	tons/yr	
Storage Piles			** see page 3 **						1.09	tons/yr	
1) Unloading Coke	525,600	ton/yr x	0.0043	lb PM-10/ton	x	1/2000	ton/lb	=	1.13	tons/yr	
2) Screening - Single Deck	525,600	ton/yr x	0.072	lb PM-10/ton	x	1/2000	ton/lb	=	18.92	tons/yr	
3) Conveying	525,600	ton/yr x	0.013	lb PM-10/ton	x	1/2000	ton/lb	=	6.83	tons/yr	
1) Loading Coke	525,600	ton/yr x	0.0043	lb PM-10/ton	x	1/2000	ton/lb	=	1.13	tons/yr	
Total Noncombustion Emissions Before Controls and Limitations:									*40.13*	*tons/yr*	9.16 lb/hr
Combustion Engines			** see page 1 **						1.54	tons/yr	
Total Emission Before Controls and Limitations:									**41.67**	**tons/yr**	

** PM emissions after controls and limitations (controls shown as percentage)**

Transporting-Wheel Loaders			** see page 2 **			x	10%	=	1.00	tons/yr	
Storage Piles			** see page 3 **			x	50%	=	0.53	tons/yr	
1) Unloading Coke	121,800	ton/yr x	0.0088	x	1/2000	x	50%	=	0.27	tons/yr	
2) Screening - Single Deck	121,800	ton/yr x	0.3	x	1/2000	x	50%	=	9.14	tons/yr	
3) Conveying	121,800	ton/yr x	0.026	x	1/2000	x	50%	=	1.58	tons/yr	
1) Loading Coke	121,800	ton/yr x	0.0088	x	1/2000	x	50%	=	0.27	tons/yr	
Total Noncombustion Emissions After Controls and Limitations:									12.79	*tons/yr*	2.92 lb/hr
Combustion Engines			** see page 1 **						1.54	tons/yr	
Total Emission After Controls and Limitations:									**14.33**	**tons/yr**	

** PM-10 emissions after controls and limitations (controls shown as percentage)**

Transporting-Wheel Loaders			** see page 2 **			x	10%	=	0.26	tons/yr	
Storage			** see page 3 **			x	50%	=	0.52	tons/yr	
1) Unloading Coke	121,800	ton/yr x	0.0043	x	1/2000	x	50%	=	0.13	tons/yr	
2) Screening - Single Deck	121,800	ton/yr x	0.072	x	1/2000	x	50%	=	2.19	tons/yr	
3) Conveying	121,800	ton/yr x	0.013	x	1/2000	x	50%	=	0.79	tons/yr	
1) Loading Coke	121,800	ton/yr x	0.0043	x	1/2000	x	50%	=	0.13	tons/yr	
Total Noncombustion Emissions After Controls and Limitations:									4.03	*tons/yr*	0.92 lb/hr
Combustion Engines			** see page 1 **						1.54	tons/yr	
Total Emission After Controls and Limitations:									**5.57**	**tons/yr**	

PM Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput): **0.23**
= PM Fugitive Emissions After Controls and Limitations (lb/yr)/Coke throughput (ton/yr)
PM10 Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput): **0.15**
=(PM10 Emissions (15 ton/yr)*2000(lb/tons) - PM10 Combustion Emissions (lb/yr)) / Coke throughput (ton/yr)

Methodology

1) The uncontrolled emission factor for the loading and unloading is the one for low silt batch drop from iron and steel mills. (AP-42, Chapter 12.5, Table 12.5.4 (10/86)).
2) Uncontrolled emission factor for fines screening from AP-42, Chapter 11.19.2 (Crushed Stone Processing Operations), Table 11.19.2-2 (08-04). 1 screening unit is included in the calculation.
3) Uncontrolled emission factor for conveying from AP-42, Chapter 12.5, Table 12.2.4 (10/86)), and assumes all material is conveyed and transferred twice.