



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a
Part 70 Administrative Operating Permit

for Mid-Continent Coal & Coke Company in Lake County

Part 70 Administrative Operating Permit Renewal No.: T089-43105-00173

The Indiana Department of Environmental Management (IDEM) has received an application from Mid-Continent Coal & Coke Company located at One North Broadway, Gary, IN 46402 for a renewal of its Part 70 Administrative Operating Permit Renewal, issued on February 29, 2016. If approved by IDEM's Office of Air Quality (OAQ), this proposed renewal would allow Mid-Continent Coal & Coke Company to continue to operate its existing source.

This draft permit does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow for these changes.

A copy of the permit application and IDEM's preliminary findings have been sent to:

Gary Public Library and Cultural Center
220 West 5th Avenue
Gary, IN 46402

and

IDEM Northwest Regional Office
330 W. US Highway 30, Suites E & F
Valparaiso, IN 46385

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

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

How can you participate in this process?

The date that this notice is posted on IDEM's website (<https://www.in.gov/idem/5474.htm>) marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

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

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

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number T089-43105-00173 in all correspondence.

Comments should be sent to:

Travis Flock
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Travis Flock or (317) 233-1782
Or dial directly: (317) 233-1782
Fax: (317) 232-6749 attn: Travis Flock
E-mail: tflock@idem.IN.gov

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

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

What will happen after IDEM makes a decision?

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

If you have any questions, please contact Travis Flock or my staff at the above address.



Brian Williams, Section Chief
Permits Branch
Office of Air Quality



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Eric J. Holcomb
Governor

DRAFT

Bruno L. Pigott
Commissioner

**Part 70 Administrative Operating Permit Renewal
OFFICE OF AIR QUALITY**

**Mid-Continent Coal & Coke Company
One North Broadway
Gary, Indiana 46402**

(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.: T089-43105-00173	
Master Agency Interest ID.: 19908	
Issued by:	Issuance Date:
Brian Williams, Section Chief Permits Branch Office of Air Quality	Expiration Date:

SECTION A	SOURCE SUMMARY	4
A.1	General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]	
A.2	Part 70 Source Definition [326 IAC 2-7-1(22)]	
A.3	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]	
A.4	Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]	
A.5	Part 70 Permit Applicability [326 IAC 2-7-2]	
SECTION B	GENERAL CONDITIONS	7
B.1	Definitions [326 IAC 2-7-1]	
B.2	Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-7-7][IC 13-17-12]	
B.5	Severability [326 IAC 2-7-5(5)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]	
B.7	Duty to Provide Information [326 IAC 2-7-5(6)(E)]	
B.8	Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]	
B.9	Annual Compliance Certification [326 IAC 2-7-6(5)]	
B.10	Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]	
B.11	Emergency Provisions [326 IAC 2-7-16]	
B.12	Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]	
B.14	Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]	
B.15	Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]	
B.16	Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]	
B.17	Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]	
B.18	Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]	
B.19	Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]	
B.20	Source Modification Requirement [326 IAC 2-7-10.5]	
B.21	Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]	
B.22	Transfer of Ownership or Operational Control [326 IAC 2-7-11]	
B.23	Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]	
B.24	Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]	
SECTION C	SOURCE OPERATION CONDITIONS.....	18
	Emission Limitations and Standards [326 IAC 2-7-5(1)]	18
C.1	Opacity [326 IAC 5-1]	
C.2	Open Burning [326 IAC 4-1][IC 13-17-9]	
C.3	Incineration [326 IAC 4-2][326 IAC 9-1-2]	
C.4	Fugitive Dust Emissions [326 IAC 6-4]	
C.5	Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]	
C.6	Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]	
	Testing Requirements [326 IAC 2-7-6(1)].....	21
C.7	Performance Testing [326 IAC 3-6]	
	Compliance Requirements [326 IAC 2-1.1-11]	21
C.8	Compliance Requirements [326 IAC 2-1.1-11]	
	Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)].....	21
C.9	Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]	
C.10	Continuous Compliance Plan [326 IAC 6.8-8-1][326 IAC 6.8-8-8]	

C.11	Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]	
	Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]	22
C.12	Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]	
C.13	Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]	
C.14	Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]	
C.15	Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]	
	Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]	24
C.16	Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]	
C.17	General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]	
C.18	General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]	
	Stratospheric Ozone Protection	27
C.19	Compliance with 40 CFR 82 and 326 IAC 22-1	
SECTION D.1	EMISSIONS UNIT OPERATION CONDITIONS	28
	Emission Limitations and Standards [326 IAC 2-7-5(1)]	29
D.1.1	PSD and Emission Offset [326 IAC 2-2][326 IAC 2-3]	
D.1.2	PSD Minor Limits [326 IAC 2-2]	
D.1.3	326 IAC 6.8-1-2 (Particulate Emission Limitations for Lake County)	
D.1.4	Preventive Maintenance Plan [326 IAC 2-7-5(12)]	
	Compliance Determination Requirements [326 IAC 2-7-5(1)]	30
D.1.5	Particulate Matter Control	
	Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]	30
D.1.6	Visible Emissions Notations	
	Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)][326 IAC 2-7-19]	31
D.1.7	Record Keeping Requirements	
D.1.8	Reporting Requirements	
SECTION D.2	EMISSIONS UNIT OPERATION CONDITIONS	32
	Emission Limitations and Standards [326 IAC 2-7-5(1)]	32
D.2.1	Volatile Organic Liquid Storage Vessels Record keeping and reporting requirements [326 IAC 8-9-6]	
CERTIFICATION		33
EMERGENCY OCCURRENCE REPORT		34
Part 70 Quarterly Report		36
Part 70 Quarterly Report		37
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT		38
Attachment A: Fugitive Dust Control Plan		

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(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary coke screening operation.

Source Address:	One North Broadway, Gary, Indiana 46402
General Source Phone Number:	(708) 798-1110
SIC Code:	3312 (Steel Works) and 5052 (Coal and Other Minerals and Ores)
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

US Steel - Gary Works is an integrated steel mill that includes the primary operation, U.S. Steel - Gary Works (Source ID 089-00121), at One North Broadway, Gary, Indiana, collocated with on-site contractors:

	Company Name	Source ID	Operation Description
1	U.S. Steel - Gary Works	089-00121	integrated steel mill
	On-Site Contractors		
2	TMS International, LLC	089-00132	slag processing/metal recovery
3	South Shore Slag, LLC	089-00133	slag crushing, screening and conveying
4	Central Teaming Company Inc	089-00172	material handling
5	Tube City IMS, LLC	089-00174	scrap metal processing
6	Mid-Continent Coal & Coke	089-00173	coke screening operation
7	Fritz Enterprises, Inc.	089-00578	iron and slag processing operation

A Part 70 permit has been issued to U.S. Steel - Gary Works (Source ID 089-00121). Separate Administrative Part 70 permits will be issued to each of the on-site contractors, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

- (a) One (1) portable screening unit, identified as Plant 1, constructed in 2020, with a maximum capacity of 50 tons of coke or coal per hour, consisting of the following:
 - (1) One (1) hopper;

- (2) Six (6) conveyors;
 - (3) One (1) screener;
 - (4) one and one-half (1.5) acre of coke storage piles with throughput of 40,838 tons per year, constructed in 1981; and
 - (5) Caterpillar wheel loaders, constructed in 1981, with each having a minimum of a four (4) cubic yard bucket and a vehicle weight of 29,657 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.
- (b) One (1) re-screening operation, identified as Plant No. 2, constructed in 1981, with a maximum capacity of 96.25 tons per hour of coke, consisting of the following equipment:
- (1) one (1) feed hopper;
 - (2) fourteen (14) conveyors;
 - (3) two (2) pep screens;
 - (4) one (1) triple deck vibrator screen;
 - (5) four (4) acres of coke storage piles with a throughput of 184,800 tons per year; and
 - (6) Caterpillar wheel loaders with each having a minimum of a four (4) cubic yard bucket and a vehicle weight of 29,657 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.
- (c) Fugitive Dust Sources consisting of, but not limited to, the following:
- (1) Paved Roads and Parking Lots
 - (2) Unpaved Roads and Parking Lots
 - (3) Batch Transfer-Loading and Unloading Operations
 - (4) Continuous Transfer In and Out of Storage Piles
 - (5) Batch Transfer Operations-Slag and Kish Handling
 - (6) Wind Erosion from Storage Piles and Open Areas
 - (7) In Plant Transfer by Truck or Rail
 - (8) In Plant Transfer by Front End Loader or Skip Hoist
 - (9) Material Processing Facility (except Crusher Fugitive Emissions)
 - (10) Crusher Fugitive Emissions
 - (11) Material Processing Facility Building Openings

(12) Dust Handling Equipment

- (d) One (1) stacking conveyor with attached feed hopper for storage piling and transportation equipment loading, identified as CS-01, associated with Plant 1, constructed in 2007, with a maximum throughput of 200 tons per hour, with particulate emissions controlled by periodic watering of piles, and exhausting to the atmosphere.
- (e) One self-contained screening operation, permitted in 2012, with a maximum annual capacity of 300,000 tons of coke or coal, including of the following:
 - (1) one (1) feed hopper, identified as Hp-P1;
 - (2) one (1) conveyor, identified as Cv-P1-3; and
 - (3) one (1) screen for processing, identified as Sc-P1.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (b) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

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, T089-43105-00173, 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][IC 13-17-12]

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

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

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

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

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

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

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

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

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

United States Environmental Protection Agency, Region 5
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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ or 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 and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 464-0233; fax: (219) 464-0553.

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

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

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

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

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

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the

permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T089-43105-00173 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 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

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

requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

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

deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

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

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

and

United States Environmental Protection Agency, Region 5
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)(1) and (c)(1). 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) and (c)(1).

- (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(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records 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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

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

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

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

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

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) 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.

- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) 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.
- (g) 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%).
- (h) Material processing facilities shall include the following:
 - (1) 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.
 - (2) 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.
 - (3) The PM₁₀ stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
 - (3) 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(9).
- (k) 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.

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

C.6 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(c).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(d).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

- (f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

C.7 Performance Testing [326 IAC 3-6]

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (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.8 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.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of

permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.10 Continuous Compliance Plan [326 IAC 6.8-8-1][326 IAC 6.8-8-8]

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at the source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.
- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8.

C.11 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. The analog instrument shall be capable of measuring values outside of the normal range.
- (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.12 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]

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

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

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

C.13 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.14 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit 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(33) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(2)(A)(iii); and
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (oo) and/or 326 IAC 2-3-1 (jj)) *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 (ww) and/or 326 IAC 2-3-1 (pp), 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).
- (f) The report for project at an existing emissions *unit* shall be submitted no later than sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
- (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.

- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
- (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

- (g) 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.19 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 applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) portable screening unit, identified as Plant No. 1, constructed in 2020, with a maximum capacity of 50 tons per hour of coke or coal, consisting of the following:
 - (1) One (1) hopper;
 - (2) Six (6) conveyors;
 - (3) One (1) screener;
 - (4) one and one-half (1.5) acre of coke storage piles with throughput of 40,838 tons per year, constructed in 1981; and
 - (5) Caterpillar wheel loaders, constructed in 1981, with each having a minimum of a four (4) cubic yard bucket and a vehicle weight of 29,657 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.

- (b) One (1) re-screening operation, identified as Plant No. 2, constructed in 1981, with a maximum capacity of 96.25 tons per hour of coke, consisting of the following equipment:
 - (1) one (1) feed hopper;
 - (2) fourteen (14) conveyors;
 - (3) two (2) pep screens;
 - (4) one (1) triple deck vibrator screen;
 - (5) four (4) acres of coke storage piles with a throughput of 184,800 tons per year; and
 - (6) Caterpillar wheel loaders with each having a minimum of a four (4) cubic yard bucket and a vehicle weight of 29,657 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.

- (c) Fugitive Dust Sources consisting of, but not limited to, the following:
 - (1) Paved Roads and Parking Lots
 - (2) Unpaved Roads and Parking Lots
 - (3) Batch Transfer-Loading and Unloading Operations
 - (4) Continuous Transfer In and Out of Storage Piles
 - (5) Batch Transfer Operations-Slag and Kish Handling
 - (6) Wind Erosion from Storage Piles and Open Areas
 - (7) In Plant Transfer by Truck or Rail

(8)	In Plant Transfer by Front End Loader or Skip Hoist
(9)	Material Processing Facility (except Crusher Fugitive Emissions)
(10)	Crusher Fugitive Emissions
(11)	Material Processing Facility Building Openings
(12)	Dust Handling Equipment
(d)	One (1) stacking conveyor with attached feed hopper for storage piling and transportation equipment loading, identified as CS-01, associated with Plant 1, constructed in 2007, with a maximum throughput of 200 tons per hour, with particulate emissions controlled by periodic watering of piles, and exhausting to the atmosphere.
(e)	One self-contained screening operation, permitted in 2012, with a maximum annual capacity of 300,000 tons of coke or coal, including of the following:
(1)	one (1) feed hopper, identified as Hp-P1;
(2)	one (1) conveyor, identified as Cv-P1-3; and
(3)	one (1) screen for processing, identified as Sc-P1.
(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 Emission Offset [326 IAC 2-2][326 IAC 2-3]

- (a) Pursuant to Significant Permit Modification 089-25334-00173, issued on September 2, 2008, the coke and/or coal throughput to the one (1) re-screening operation, identified as Plant No. 2, shall be limited to less than 360,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The particulate limitations shall be as follows:

Equipment/Operation	PM (lb/ton of material throughput)	PM10 (lb/ton of material throughput)	Direct PM2.5 (lb/ton of material throughput)
Unloading coke and/or coal	0.0001	0.000052	0.000015
Screening	0.025	0.0087	0.0087
Conveying	0.026	0.013	0.0046
Loading coke and/or coal	0.0088	0.0043	0.0016

Compliance with these limits shall limit the total PM from Plant 2 to less than twenty-five (25) tons per (12) twelve consecutive month period and the total PM10 emissions from Plant 2 to less than fifteen (15) tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable to Significant Permit Modification 089-25334-00173.

Compliance with these limits shall limit the total Direct PM2.5 emissions from Plant 2 to less than ten (10) tons per twelve (12) consecutive month period and render the requirements of 326 IAC

2-3 not applicable to Significant Permit Modification 089-25334-00173.

D.1.2 PSD Minor Limits [326 IAC 2-2]

- (a) Pursuant to Significant Permit Modification No. 089-32065-00173, issued on September 13, 2012, the coke throughput to the screening operation Sc-P1 shall be limited to less than 300,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The particulate limitations shall be as follows:

Equipment/Operation	PM (lb/ton of coke throughput)	PM10 (lb/ton of coke throughput)	Direct PM2.5 (lb/ton of coke throughput)
Unloading coke and/or coal	0.0001	0.000052	0.000015
Screening	0.025	0.0087	0.0087
Conveying	0.026	0.013	0.0046
Loading coke and/or coal	0.0088	0.0043	0.0016

Compliance with these limits shall limit the PM emissions from this modification to less than twenty-five (25) tons, the PM-10 emissions to less than fifteen (15) tons, and PM2.5 emissions to less than ten (10) tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable.

D.1.3 326 IAC 6.8-1-2 (Particulate Emission Limitations for Lake County)

Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) from the screening operations, conveyors, feed hoppers, and transfer points at this source shall not exceed three-hundredths (0.03) grain per dry cubic foot (dscf).

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventative Maintenance Plan is required for the screens and conveyors. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

D.1.5 Particulate Matter Control

In order to ensure compliance with Conditions D.1.1, D.1.2, and D.1.3, the Permittee shall use wet suppression to control emissions of PM, PM₁₀, and PM_{2.5} from the screens as necessary. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with Conditions D.1.1, D.1.2, and D.1.3.

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

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the Plant No. 2: feeder hopper, conveyers, pep screens and vibrator screen, stacking conveyor CS-01, screen Sc-P1, hopper Hp-P1, and conveyor Cv-P1-3 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 a reasonable response, Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.1.7 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations of the Plant No. 2: feeder hopper, conveyers, pep screens and vibrator screen, stacking conveyor CS-01, screen Sc-P1, hopper Hp-P1, and conveyor Cv-P1-3. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document compliance status with Condition D.1.1 and D.1.2, the Permittee shall maintain monthly records of coke throughputs to Plant No. 2 and Sc-P1 screening operations.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.1.8 Reporting Requirements

A quarterly report and a quarterly summary of the information to document the compliance status with Conditions D.1.1 and D.1.2 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

This raw material segregation of metallurgical coke and coal operation also includes the following specifically regulated insignificant activities as defined in 326 IAC 2-7-1(21).

- (a) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

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

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

D.2.1 Volatile Organic Liquid Storage Vessels Record keeping and reporting requirements [326 IAC 8-9-6]

Pursuant to 326 IAC 8-9-6 (a) and (b), the Permittee shall maintain the following records for the life of the stationary storage vessels and submit a report to IDEM, OAQ containing the following for each vessel:

- (1) The vessel identification number,
- (2) The vessel dimensions, and
- (3) The vessel capacity.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Mid-Continent Coal & Coke Company
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-43105-00173

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Mid-Continent Coal & Coke Company
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-43105-00173

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

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

Part 70 Quarterly Report

Source Name: Mid-Continent Coal & Coke Company
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-43105-00173
Facility: Plant #2
Parameter: Throughput of coke/coal processed
Limit: Less than 360,000 tons of iron per twelve (12) consecutive month period with compliance determined at the end of each month

QUARTER :

YEAR:

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

No deviation occurred in this quarter.

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

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

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

Part 70 Quarterly Report

Source Name: Mid-Continent Coal & Coke Company
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-43105-00173
Facility: Screening Operation Sc-P1
Parameter: Throughput of coke
Limit: Less than 300,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

QUARTER :

YEAR:

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

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Source Name: Mid-Continent Coal & Coke Company
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-43105-00173

Months: _____ to _____ Year: _____

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

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: _____

FUGITIVE DUST CONTROL PLAN

MID-CONTINENT COAL AND COKE COMPANY

Source Information

Primary Contact & Owner Information:

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

Portable Source Address:

US Steel – Gary Works
1 North Broadway
Gary, Indiana 46402

Emission Sources and Methods of Fugitive Emissions Control

Roadway Control:

1. Traffic is restricted to established and control roadways.
2. Vehicular traffic (i.e., loaders, tractor trailers, trucks, etc.) on unpaved roads is limited to 5 mph.
3. Paved and unpaved roadways are the responsibility of US Steel.
4. Roadways, within the portable plant(s) work area(s), are inspected each day of operation to determine if dust suppression is required.
5. Water is applied to unpaved roads, by USS, to manage fugitive dust.
6. In case of high winds, U.S. Steel notifies Mid-Continent to cease all operations, including all mobile equipment and vehicular traffic on unpaved areas.

Coke/Coal Stockpile Control Measures:

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

Coke/Coal Screening & Stacking Control:

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

1. Water sprays may be applied to the source stockpile to get its moisture level above 10%.
2. For small amounts of dry coke, fresh material may be dumped on top of the dry material and mixed with a loader bucket to raise the moisture content of the dry material to an acceptable level.
3. In some cases, MCCC will voluntarily shut down operations in high winds if it is determined that visible emissions are abnormal or damage to equipment could occur. When the wind is from certain directions, rubber conveyor belting on stacking equipment may be at risk of being flipped and folded.

Site Map

Legend

Unpaved Roads - - - - -

Stockpile 

Portable Plant 

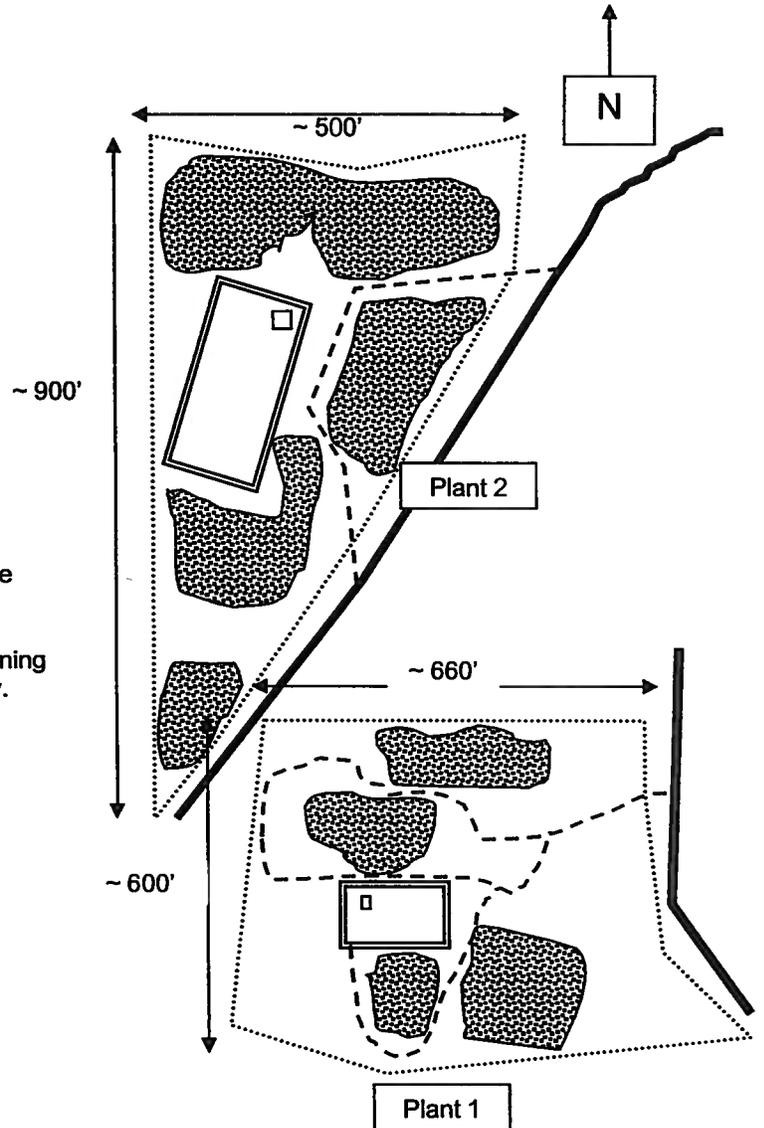
Property Line
.....

Buildings 

Paved Road 

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

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



MID-CONTINENT COAL AND COKE COMPANY

915 WEST 175TH STREET
HOMEWOOD, ILLINOIS 60430

PREMIUM QUALITY
COAL AND COKE

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

Lake County Fugitive Dust Control Plan

Quarterly Compliance Report

Permit No. T089-00173

Facility: Mid-Continent Coal & Coke Company an on-site Contractor of US Steel - Gary Work

Pursuant to 326 IAC 6.8-10-4 (4)(G) (Compliance Requirements; Control Plan), a quarterly report shall be submitted, stating the following:

- (a) The dates any required control measures were not implemented
- (b) A listing of those control measures
- (c) The reasons that the control measures were not implemented
- (d) Any corrective action taken

Quarterly Summary

Reporting Period: _____ to _____.

Dates (a)	Control Measures (b)	Reasons (c)	Correction Action (d)

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

**Technical Support Document (TSD) for a Part 70 Administrative Operating
Permit Renewal**

Source Description and Location

Source Name: Mid-Continent Coal & Coke Company
Source Location: One North Broadway, Gary, IN 46402
County: Lake (Calumet)
SIC Code: 3312 (Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills)
Administrative Permit Renewal No.: 5052 (Coal and Other Minerals and Ores)
Permit Reviewer: T089-43105-00173
 Travis Flock

On August 3, 2020, Mid-Continent Coal & Coke Company submitted an application to the Office of Air Quality (OAQ) requesting to renew its operating permit. OAQ has reviewed the administrative operating permit renewal application from Mid-Continent Coal & Coke Company relating to the operation of a coal and coke processing and screening operation. Mid-Continent Coal & Coke Company was issued its second Part 70 Administrative Operating Permit Renewal (T089-36071-00173) on February 29, 2016.

Source Definition

US Steel - Gary Works is an integrated steel mill that includes the primary operation, U.S. Steel - Gary Works (Source ID 089-00121), at One North Broadway, Gary, Indiana, collocated with on-site contractors:

	Company Name	Source ID	Operation Description
1	U.S. Steel - Gary Works	089-00121	integrated steel mill
	On-Site Contractors		
2	TMS International, LLC	089-00132	slag processing/metal recovery
3	South Shore Slag, LLC	089-00133	slag crushing, screening and conveying
4	Central Teaming Company, Inc.	089-00172	material handling
5	Tube City IMS, LLC	089-00174	scrap metal processing
6	Mid-Continent Coal & Coke	089-00173	coke screening operation
7	Fritz Enterprises, Inc.	089-00578	iron and slag processing operation

A Part 70 permit has been issued to U.S. Steel - Gary Works (Source ID 089-00121). Separate Administrative Part 70 permits will be issued to each of the on-site contractors, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. T089-36071-00173 on February 29, 2016. The source has since received the following approval:

Permit Type	Permit Number	Issuance Date
TV MSM	089-42615-00173	July 16, 2020
TV MPM	089-42956-00173	TBA

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) portable screening unit, identified as Plant 1, constructed in 2020, with a maximum capacity of 50 tons of coke or coal per hour, consisting of the following:
 - (1) One (1) hopper;
 - (2) Six (6) conveyors;
 - (3) One (1) screener;
 - (4) one and one-half (1.5) acre of coke storage piles with throughput of 40,838 tons per year, constructed in 1981; and
 - (5) Caterpillar wheel loaders, constructed in 1981, with each having a minimum of a four (4) cubic yard bucket and a vehicle weight of 29,657 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.

- (b) One (1) re-screening operation, identified as Plant No. 2, constructed in 1981, with a maximum capacity of 96.25 tons per hour of coke, consisting of the following equipment:
 - (1) one (1) feed hopper;
 - (2) fourteen (14) conveyors;
 - (3) two (2) pep screens;
 - (4) one (1) triple deck vibrator screen;
 - (5) four (4) acres of coke storage piles with a throughput of 184,800 tons per year; and
 - (6) Caterpillar wheel loaders with each having a minimum of a four (4) cubic yard bucket and a vehicle weight of 29,657 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.

- (c) Fugitive Dust Sources consisting of, but not limited to, the following:
 - (1) Paved Roads and Parking Lots
 - (2) Unpaved Roads and Parking Lots
 - (3) Batch Transfer-Loading and Unloading Operations
 - (4) Continuous Transfer In and Out of Storage Piles
 - (5) Batch Transfer Operations-Slag and Kish Handling
 - (6) Wind Erosion from Storage Piles and Open Areas
 - (7) In Plant Transfer by Truck or Rail

- (8) In Plant Transfer by Front End Loader or Skip Hoist
 - (9) Material Processing Facility (except Crusher Fugitive Emissions)
 - (10) Crusher Fugitive Emissions
 - (11) Material Processing Facility Building Openings
 - (12) Dust Handling Equipment
- (d) One (1) stacking conveyor with attached feed hopper for storage piling and transportation equipment loading, identified as CS-01, associated with Plant 1, constructed in 2007, with a maximum throughput of 200 tons per hour, with particulate emissions controlled by periodic watering of piles, and exhausting to the atmosphere.
- (e) One self-contained screening operation, permitted in 2012, with a maximum annual capacity of 300,000 tons of coke or coal, including of the following:
- (1) one (1) feed hopper, identified as Hp-P1;
 - (2) one (1) conveyor, identified as Cv-P1-3; and
 - (3) one (1) screen for processing, identified as Sc-P1.

Insignificant Activities

The source also consists of the following insignificant activities:

Specifically regulated insignificant activities:

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (b) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

Enforcement Issue

In accordance with 326 IAC 2-7-4(a)(1)(D), a timely renewal application is one that is submitted at least nine (9) months prior to the expiration date of the source's existing operating permit. This source's existing permit expires on March 1, 2021. The source's permit renewal application was not received by IDEM until August 3, 2020. IDEM is reviewing this matter and will take appropriate action.

Emission Calculations

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

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Serious nonattainment effective September 23, 2019, for the 2008 8-hour ozone standard.
O ₃	Marginal nonattainment effective August 3, 2018, for the 2015 8-hour ozone standard for Calumet Township, Hobart Township, North Township, Ross Township, and St. John Township. Unclassifiable or attainment effective August 3, 2018, for the 2015 8-hour ozone standard for the remainder of the county.
PM _{2.5}	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM _{2.5} standard.
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO ₂ standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

- (a) **Ozone Standards**
 U.S. EPA, in the Federal Register Notice 84 FR 44238 dated August 23, 2019, designated Lake County as serious nonattainment for the 2008 8-hour ozone standard effective September 23, 2019. On November 14, 2019, the Environmental Rules Board issued an emergency rule adopting the U.S. EPA's designation. Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Therefore, VOC and NOx emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (b) **PM_{2.5}**
 Lake County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
 Lake County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a iron and/or steel mill plant, it is considered one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B). Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

	Unrestricted Potential Emissions (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1,2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Mid-Continent Coal & Coke Company	316.87	130.70	47.33	0.00	0.00	0.00	0.00	0.00	0.00
U.S. Steel – Gary Works*	>250	>250	>250	>250	>250	>250	>250	>10	>25
Total PTE of Entire Source Including Fugitives**	>250	>250	>250	>250	>250	>250	>250	>10	>25
Title V Major Source Thresholds	NA	100	100	100	50	50	100	10	25
PSD Major Source Thresholds	100	100	100	100	100	100	100	--	--
Emission Offset Major Source Thresholds	---	NA	NA	NA	50	50	NA	--	--

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM_{2.5}, not particulate matter (PM), are each considered as a "regulated air pollutant."

²PM_{2.5} listed is direct PM_{2.5}.

³Single highest source-wide HAP (Mid-Continent Coal & Coke Company does not emit HAPs).

*Includes the PTE for U.S. Steel – Gary Works and other on-site contractors.

**Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed unrestricted potential emissions of the source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, and CO are each equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Administrative Operating Permit Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. The source will be issued a Part 70 Administrative Operating Permit Renewal.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

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

	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1,2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Mid-Continent Coal & Coke Company	80.18	30.89	21.81	0.00	0.00	0.00	0.00	0.00	0.00
U.S. Steel - Gary Works*	>100	>100	>100	>100	>100	>100	>100	>10	>25
Total PTE of Entire Source Including Fugitives*	>100	>100	>100	>100	>100	>100	>100	>10	>25
Title V Major Source Thresholds	NA	100	100	100	50	50	100	10	25
PSD Major Source Thresholds	100	100	100	100	100	100	100	--	--
Emission Offset Major Source Thresholds	---	NA	NA	NA	50	50	NA	--	--

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM_{2.5}, not particulate matter (PM), are each considered as a "regulated air pollutant."

²PM_{2.5} listed is direct PM_{2.5}.

³Single highest source-wide HAP (Mid-Continent Coal & Coke Company does not emit HAPs).

*Includes potential to emit of U.S. Steel – Gary Works and other on-site contractors.

**Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed potential to emit of the entire source after issuance.

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant, PM, PM₁₀, PM_{2.5}, SO₂, NO_x, VOC and CO, are each 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(ff)(1).
- (b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because NO_x, and VOC, each a nonattainment regulated pollutant, is each emitted at a rate of 50 tons per year or more.
- (c) This source is a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are equal to or greater than ten (10) tons per year for a single HAP and equal to or greater than

twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Federal Rule Applicability

Federal rule applicability for this source has been reviewed as follows:

New Source Performance Standards (NSPS):

- (a) The requirements of the New Source Performance Standard for Metallic Mineral Processing Plants, 40 CFR 60, Subpart LL and 326 IAC 12, are not included in the permit for this source, because none of the operations at this source qualify as “metallic mineral processing” as defined in 40 CFR 60.381.
- (b) The requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO and 326 IAC 12, are not included in the permit for this source, because none of the operations at this source qualify as “nonmetallic mineral processing” as defined in 40 CFR 60.671. Pursuant to 40 CFR 60.671, slag processing does not meet the definition of a nonmetallic mineral.
- (c) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (40 CFR Part 63, 326 IAC 14, and 326 IAC 20) included in the permit.

Compliance Assurance Monitoring (CAM):

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.
- (b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Plant No. 2/PM, PM10, PM2.5	N	-	-	-	N	N

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Under the Part 70 Permit program (40 CFR 70), PM is not a regulated air pollutant.						
Uncontrolled PTE (tpy) and controlled PTE (tpy) are evaluated against the Major Source Threshold for each pollutant. Major Source Threshold for regulated air pollutants (PM10, PM2.5, SO2, and CO) is 100 tpy, for NOx and VOC 50 tpy, for a single HAP ten (10) tpy, and for total HAPs twenty-five (25) tpy.						
PM*	For limitations under 326 IAC 6-3-2, 326 IAC 6.5, and 326 IAC 6.8, IDEM OAQ uses PM as a surrogate for the regulated air pollutant PM10. Therefore, uncontrolled PTE and controlled PTE reflect the emissions of the regulated air pollutant PM10.					
Emission units without air pollution controls are not subject to CAM.						

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable to any of the existing units as part of this Part 70 permit renewal.

State Rule Applicability - Entire Source

State rule applicability for this source has been reviewed as follows:

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source is subject to 326 IAC 1-6-3.

326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)

PSD and Emission Offset applicability is discussed under the Potential to Emit After Issuance section of this document.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The provisions of 326 IAC 2-4.1 apply to any owner or operator who constructs or reconstructs a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.41, after July 27, 1997, unless the major source has been specifically regulated under or exempted from regulation under a NESHAP that was issued pursuant to Section 112(d), 112(h), or 112(j) of the Clean Air Act (CAA) and incorporated under 40 CFR 63. On and after June 29, 1998, 326 IAC 2-4.1 is intended to implement the requirements of Section 112(g)(2)(B) of the Clean Air Act (CAA).

The operation of this Mid-Continent Coal & Coke Company will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply to Mid-Continent Coal & Coke Company.

326 IAC 2-6 (Emission Reporting)

This source is subject to the requirements of 326 IAC 2-6 (Emission Reporting), since it is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, is located in Lake County, and emits NOx and VOC into the ambient air at levels equal to or greater than twenty-five (25) tons per year. Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit annually, by July 1, an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-6(5) (Annual Compliance Certification)

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certifications that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2).

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

The source is subject to the requirements of 326 IAC 6-4, because the source includes operations that have the potential to emit fugitive particulate emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This source was constructed after December 13, 1985 and has potential fugitive particulate emissions of twenty-five (25) tons per year or more. Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan that is included as Attachment A to the permit.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), this source (located in Lake County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

This source is subject to 326 IAC 6.8 because it is located in Lake County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.8-2-4 through 326 IAC 6.8-2-38. Therefore, 326 IAC 6.8-1-2(a) applies.

326 IAC 6.8-10-3 (Fugitive Particulate Matter Emissions)

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) 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.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) 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.
- (g) 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%).
- (h) Material processing facilities shall include the following:
 - (1) 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.

- (2) 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.
 - (3) The PM₁₀ stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
- (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
 - (3) 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(9).
- (k) 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.

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

326 IAC 6.8-8 (Continuous Compliance Plan)

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.
- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8.

State Rule Applicability – Individual Facilities

State rule applicability has been reviewed as follows:

326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)

- (a) Pursuant to Significant Permit Modification 089-25334-00173, issued on September 2, 2008, and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the coke and/or coal throughput to the one (1) re-screening operation, identified as Plant No. 2, shall be limited to less than 360,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The particulate limitations shall be as follows:

Equipment/Operation	PM (lb/ton of material throughput)	PM10 (lb/ton of material throughput)	Direct PM2.5 (lb/ton of material throughput)
Unloading coke and/or coal	0.0001	0.000052	0.000015
Screening	0.025	0.0087	0.0087
Conveying	0.026	0.013	0.0046
Loading coke and/or coal	0.0088	0.0043	0.0016

Compliance with these limits shall limit the total PM from Plant 2 to less than twenty-five (25) tons per (12) twelve consecutive month period and the total PM10 emissions from Plant 2 to less than fifteen (15) tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable to Significant Permit Modification 089-25334-00173.

Compliance with these limits shall limit the total Direct PM2.5 emissions from Plant 2 to less than ten (10) tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-3 not applicable to Significant Permit Modification 089-25334-00173.

- (b) Pursuant to Significant Permit Modification No. 089-32065-00173, issued on September 13, 2012, and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the coke throughput to the screening operation Sc-P1 shall be limited to less than 300,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The particulate limitations shall be as follows:

Equipment/Operation	PM (lb/ton of coke throughput)	PM10 (lb/ton of coke throughput)	Direct PM2.5 (lb/ton of coke throughput)
Unloading coke and/or coal	0.0001	0.000052	0.000015
Screening	0.025	0.0087	0.0087
Conveying	0.026	0.013	0.0046
Loading coke and/or coal	0.0088	0.0043	0.0016

Compliance with these limits shall limit the PM emissions from this modification to less than twenty-five (25) tons, the PM-10 emissions to less than fifteen (15) tons, and PM2.5 emissions to less than ten (10) tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(c)(1) and 326 IAC 6-3-1(c)(3), the screening operations, conveyors, feed hoppers, and transfer points at across all operations and associated emission units is not subject to the

requirements of 326 IAC 6-3, since each operation and associated emission unit is subject to more stringent particulate matter limitations under 326 IAC 2-2, 326 IAC 2-3, and 326 IAC 6.8.

326 IAC 6.8 PM Limitations for Lake County

Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) from the screening operations, conveyors, feed hoppers, and transfer points at this source shall not exceed three-hundredths (0.03) grain per dry cubic foot (dscf).

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The emission units at this source are each not subject to 326 IAC 326 IAC 7-1.1 because each unit has a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) of less than 25 tons per year or 10 pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The emission units at this source are each not subject to the requirements of 326 IAC 8-1-6 because each unit does not have the potential to emit volatile organic compounds (VOCs).

326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels Recordkeeping and Reporting Requirements)

Pursuant to 326 IAC 8-9-6(a) and (b), the Permittee shall maintain the following records for the life of the stationary storage vessels and submit a report to IDEM, OAQ containing the following for each vessel:

- (1) The vessel identification number,
- (2) The vessel dimensions, and
- (3) The vessel capacity.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The requirements of 326 IAC 9-1 do not apply to the emission units at this source, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)

The requirements of 326 IAC 10-3 do not apply to the emission units at this source, since this source does not operate units that are a blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Compliance Determination and Monitoring Requirements

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

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

(a) The Compliance Determination Requirements applicable to this source are as follows:

The Permittee shall use wet suppression to control emissions of PM, PM₁₀, and PM_{2.5} from the screens at Plant 1 as necessary. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the PSD minor limits (326 IAC 2-2) and 326 IAC 6.8-1-2 (Particulate Emission Limitations for Lake County) that all units involved in this modification are subject to (see State Rules - Individual Facilities section of this document).

(b) The Compliance Monitoring Requirements applicable to this source are as follows:

Unit	Control	Parameter	Frequency	Range	Excursions and Exceedances
Plant No. 2 Feeder Hopper	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
Plant No. 2 Conveyors	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
Plant No. 2 Pep Screens	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
Plant No. 2 Vibrating Screen	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
CS-01	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
Sc-P1	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
Hp-P1	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps
Cv-P1-3	Wet Suppression System	Visible Emissions	Daily	Normal-Abnormal	Response Steps

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on August 3, 2020.

The operation of this coal and coke processing and screening facility shall be subject to the conditions of the attached proposed Part 70 Operating Permit Renewal No. T089-43105-00173.

The staff recommends to the Commissioner that the Part 70 Operating Permit Renewal be approved.

IDEM Contact

- (a) If you have any questions regarding this permit, please contact Travis Flock, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 233-1782 or (800) 451-6027, and ask for Travis Flock or (317) 233-1782.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations
PTE Summary**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

Uncontrolled Potential to Emit (tons/yr)								
Emission Unit	PM	PM10	PM2.5 *	SO ₂	NOx	VOC	CO	Total HAPs
Wheel Loaders (Plant 1)	31.77	8.10	0.81	-	-	-	-	-
Storage Piles (Plant 1)	1.65	0.82	0.32	-	-	-	-	-
Wheel Loaders (Plant 2)	61.49	15.67	1.57	-	-	-	-	-
Storage Piles (Plant 2)	4.33	2.16	0.84	-	-	-	-	-
Screening (Plant 1)	5.48	1.91	1.91	-	-	-	-	-
Conveyors (Plant 1)	18.98	9.49	3.36	-	-	-	-	-
Hopper (Plant 1)	0.24	0.01	0.00	-	-	-	-	-
Loading Coke (Plant 1)	1.93	0.94	0.35	-	-	-	-	-
Screening (Plant 2)	10.54	3.67	3.67	-	-	-	-	-
Conveyors (Plant 2)	153.45	76.73	27.15	-	-	-	-	-
Pep Screens	10.54	3.67	3.67	-	-	-	-	-
Stacking Conveyor (CS-01)	5.69	2.85	1.01	-	-	-	-	-
Screening Operation	10.78	4.69	2.68	-	-	-	-	-
Total	316.87	130.70	47.33	0.00	0.00	0.00	0.00	0.00

* PM2.5 listed is direct PM2.5

Potential to Emit after Issuance (tons/yr)								
Emission Unit	PM	PM10	PM2.5 *	SO ₂	NOx	VOC	CO	Total HAPs
Wheel Loaders (Plant 1)	10.45	2.66	0.27	-	-	-	-	-
Storage Piles (Plant 1)	1.65	0.82	0.32	-	-	-	-	-
Wheel Loaders (Plant 2)	20.22	5.15	0.52	-	-	-	-	-
Storage Piles (Plant 2)	2.11	1.05	0.42	-	-	-	-	-
Screening (Plant 1)	5.48	1.91	1.91	-	-	-	-	-
Conveyors (Plant 1)	18.98	9.49	3.36	-	-	-	-	-
Hopper (Plant 1)	0.24	0.01	0.00	-	-	-	-	-
Loading Coke (Plant 1)	1.93	0.94	0.35	-	-	-	-	-
Screening (Plant 2)	0.40	0.13	0.01	-	-	-	-	-
Conveyors (Plant 2)	4.68	2.34	11.59	-	-	-	-	-
Pep Screens	0.40	0.13	0.01	-	-	-	-	-
Stacking Conveyor (CS-01)	4.68	2.34	0.83	-	-	-	-	-
Screening Operation	8.99	3.91	2.24	-	-	-	-	-
Total	80.18	30.89	21.81	0.00	0.00	0.00	0.00	0.00

* PM2.5 listed is direct PM2.5

Note: The shaded cells indicate where limits are included.

**Appendix A: Emission Calculations
Plant 1 PM Summary**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

PLANT 1
 Unlimited Coke Throughput 438,000

Controlled and Uncontrolled PM emissions without throughput limitations

Unit Description	Emission Unit ID	Unlimited Capacity (tons/hour) (tons/hr)	Unlimited Throughput (tons/year) (tons/yr)	Emission Factors (lb/ton) Uncontrolled			Emission Factors (lb/ton) Controlled			Uncontrolled PTE (TPY)			Controlled PTE(TPY)		
				PM	PM10	PM2.5	PM	PM10	PM2.5	PM	PM10	PM2.5	PM	PM10	PM2.5
One (1) Hopper	Hopper 1	50	438000	0.0011	0.000052	1.5E-05	0.00055	2.6E-05	0.0000075	0.24	0.01	0.00	0.12	0.01	0.00
One (1) Conveyor	CV1	50	438000	0.026	0.013	0.0046	0.013	0.0065	0.0023	5.69	2.85	1.01	2.85	1.42	0.50
One (1) Conveyor	CV2	50	438000	0.026	0.013	0.0046	0.013	0.0065	0.0023	5.69	2.85	1.01	2.85	1.42	0.50
One (1) Screen	Portable Screen 1	50	438000	0.025	0.0087	0.0037	0.0125	0.00435	0.00435	5.48	1.91	1.91	2.74	0.95	0.95
One (1) Conveyor	CV3	16.67	146000	0.026	0.013	0.0046	0.013	0.0065	0.0023	1.90	0.95	0.34	0.95	0.47	0.17
One (1) Conveyor	CV4	16.67	146000	0.026	0.013	0.0046	0.013	0.0065	0.0023	1.90	0.95	0.34	0.95	0.47	0.17
One (1) Conveyor	CV5	16.67	146000	0.026	0.013	0.0046	0.013	0.0065	0.0023	1.90	0.95	0.34	0.95	0.47	0.17
One (1) Conveyor	CV6	16.67	146000	0.026	0.013	0.0046	0.013	0.0065	0.0023	1.90	0.95	0.34	0.95	0.47	0.17
Loading Coke	N/A	50	438,000	0.0088	0.0043	0.0018	0.0044	0.00215	0.0008	1.93	0.94	0.35	0.96	0.47	0.18
Totals:										26.62	12.35	5.82	13.31	6.17	2.81

Methodology

Uncontrolled PTE: Unlimited Throughput (tons/year) * Uncontrolled Emission Factor (lb/ton) / 2000

Controlled PTE: Unlimited Throughput (tons/year) * Uncontrolled Emission Factor (lb/ton) * 50% / 2000

¹⁾ The uncontrolled emission factor for the loading and unloading is the one for low air batch drop from iron and steel mills (AP-42, Chapter 12.5, Table 12.5.4 (10/86)).

²⁾ Uncontrolled emission factor for screening from AP-42, Chapter 11.19.2 (crushed Stone Processing Operations), Table 11.19.2-2 (8/04).

One screening unit is included in the calculation.

³⁾ Uncontrolled emission factor for conveying from AP-42, Chapter 12.5, Table 12.5.4 (10/86).

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads
Plant 1 Wheel Loaders**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Plant 1 Wheel Loaders	Maximum number of vehicles*	Number of one-way trips per day per vehicle*	Maximum trips per day* (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Loaded Vehicle (entering plant) (one-way trip)	NA	NA	850.0	16.23	13798.9	100	0.019	16.1	5875.9
Empty Vehicle (leaving plant) (one-way trip)	NA	NA	850.0	14.83	12605.5	100	0.019	16.1	5875.9
Totals			1700.0		26404.4			32.2	11751.9

*Number of vehicles varies. Source provided Maximum trips per day data.

Average Vehicle Weight Per Trip = 15.5 tons/trip
Average Miles Per Trip = 0.02 miles/trip

Unmitigated Emission Factor, Ef = $k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	15.5	15.5	15.5	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E \cdot [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, Eext = $E \cdot [(365 - P)/365]$

where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	5.41	1.38	0.14	lb/mile
Mitigated Emission Factor, Eext =	3.56	0.91	0.09	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Loaded Vehicle (entering plant) (one-way trip)	15.89	4.05	0.40	10.45	2.66	0.27	5.22	1.33	0.13
Empty Vehicle (leaving plant) (one-way trip)	15.89	4.05	0.40	10.45	2.66	0.27	5.22	1.33	0.13
Totals	31.77	8.10	0.81	20.89	5.32	0.53	10.45	2.66	0.27

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particulate Matter (<2.5 um)
PTE = Potential to Emit

Wheel Loader

Coke weighs 26 lbs/cu ft, and 4 cu yd bucket = 108 cu ft. Therefore, 26 lbs/cu ft * 108 cu ft per bucket = 1.404 tons per bucket
200 ft per trip / 5280 ft per mile = 0.0379 miles per trip

**Appendix A: Emission Calculations
Plant 1 Storage Piles**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

PLANT 1

Unlimited Coke Throughput 438,000

Fugitive Emissions from Storage Piles

Coal Storage Pile Area	1.50	acre	
Annual Pile Days	365	days/yr	
Coal Silt Content (s)	4.9	wt. %	AP-42; Table 13.2.4-1, Coal (as received); 11/06
Threshold Wind Speed (f)	15.0	% of time	% of time that wind speed exceeds 12 mph at mean pile height, from IDEM Met data file for Lake County at http://www.in.gov/Idem/programs/air/modeling/index.html
Days with > 0.01" of precipitation (p)	125	days/yr	AP-42; Figure 13.2.2-1; 11/06 for NW Indiana
PM Particle Size Multiplier	1.0		Air Pollution Engineering Manual; p 136; AWMA; 1992
PM-10 Particle Size Multiplier	0.5		Air Pollution Engineering Manual; p 136; AWMA; 1992
PM-2.5 Particle Size Multiplier	0.2		Air Pollution Engineering Manual; p 136; AWMA; 1992
PM Emissions Factor	5.67	lb/acre/day	Air Pollution Engineering Manual; p 136; Eqn. 5; AWMA; 1992
PM-10 Emissions Factor	2.84	lb/acre/day	Air Pollution Engineering Manual; p 136; Eqn. 5; AWMA; 1992
PM-2.5 Emissions Factor	1.13	lb/acre/day	Air Pollution Engineering Manual; p 136; Eqn. 5; AWMA; 1992
Hourly PM Emissions	8.51	lb/hr	
Hourly PM-10 Emissions	4.25	lb/hr	Hourly Emissions = Coal Storage Pile Area * Emission Factor
Hourly PM-2.5 Emissions	1.70	lb/hr	
Annual PM Emissions	1.55	tpy	
Annual PM-10 Emissions	0.78	tpy	Annual Emissions = Coal Storage Pile Area * Annual Pile Days * Emission Factor * (1 ton/2,000
Annual PM-2.5 Emissions	0.31	tpy	
Hourly PM Emissions	1.16	lb/hr	
Hourly PM-10 Emissions	0.47	lb/hr	
Hourly PM-2.5 Emissions	0.00	lb/hr	
Annual PM Emissions	0.21	tpy	
Annual PM-10 Emissions	0.09	tpy	
Annual PM-2.5 Emissions	0.00	tpy	

Truck Loading Operations Disturbance of Finished Coke Piles

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).

$$E = k * 0.0032 * (U/5)^{1.3} / (M/2)^{1.4}$$

where E = calculated emission factor (lb/ton)

k = 0.74 particle size multiplier (k=0.74 for PM-30, k=0.35 for PM-10, k=0.053 for PM-2.5)
 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
 Emission Factor (E) PM-2.5 = 3.152E-05

Truck Loading Emissions Unlimited

PM (tpy) = Throughput Unlimited (tpy) * Emis. Factor (E) PM ÷ 2000 lbs/ton = 0.10
 PM-10 (tpy) = Throughput Unlimited (tpy) * Emis. Factor (E) PM-10 ÷ 2000 lbs/ton = 0.05
 PM-2.5 (tpy) = Throughput Unlimited (tpy) * Emis. Factor (E) PM-2.5 ÷ 2000 lbs/ton = 0.007

Total Emissions from Storage Piles Unlimited (tpy)	
PM	1.65
PM-10	0.82
PM-2.5	0.32

PM	1.65
PM-10	0.82
PM-2.5	0.32

**Appendix A: Emission Calculations
Plant 1 PM Summary**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

PLANT 1
 Unlimited Coke Throughput 438,000

Controlled and Uncontrolled PM emissions without throughput limitations

Unit Description	Emission Unit ID	Uncontrolled PTE (TPY)			Controlled PTE(TPY)		
		PM	PM10	PM2.5	PM	PM10	PM2.5
One (1) Hooper	Hooper 1	0.24	0.01	0.00	0.12	0.01	0.00
One (1) Conveyor	CV1	5.69	2.85	1.01	2.85	1.42	0.50
One (1) Conveyor	CV2	5.69	2.85	1.01	2.85	1.42	0.50
One (1) Screen	Portable Screen 1	5.48	1.91	1.91	2.74	0.95	0.95
One (1) Conveyor	CV3	1.90	0.95	0.34	0.95	0.47	0.17
One (1) Conveyor	CV4	1.90	0.95	0.34	0.95	0.47	0.17
One (1) Conveyor	CV5	1.90	0.95	0.34	0.95	0.47	0.17
One (1) Conveyor	CV6	1.90	0.95	0.34	0.95	0.47	0.17
Transporting - Wheel Loaders	See Plant 1 Wheel Loaders sheet	31.77	8.10	0.81	10.45	2.66	0.27
Storage Piles	See Plant 1 Storage Piles sheet	1.65	0.82	0.32	1.65	0.82	0.32
1) Loading Coke	N/A	1.93	0.94	0.35	0.96	0.47	0.18
		69.05	21.27	6.74	25.41	9.66	3.39

**Appendix A: Emission Calculations
Stacking Conveyor (CS-01)**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

PLANT 1

Unlimited Coke Throughput 438,000
 Limited Coke Throughput 360,000

PM emissions before controls and throughput limitations

¹⁾ Conveying 438,000 tons/yr x 0.026 lb PM/ton x 1 ton/2000 lbs = 5.69 tons/yr

PM-10 emissions before controls and throughput limitations

¹⁾ Conveying 438,000 tons/yr x 0.013 lb PM/ton x 1 ton/2000 lbs = 2.85 tons/yr

PM-2.5 emissions before controls and throughput limitations

¹⁾ Conveying 438,000 tons/yr x 0.0046 lb PM/ton x 1 ton/2000 lbs = 1.01 tons/yr

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

¹⁾ Conveying 360,000 tons/yr x 0.026 lb PM/ton x 1 ton/2000 lbs = 4.68 tons/yr

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

¹⁾ Conveying 360,000 tons/yr x 0.013 lb PM/ton x 1 ton/2000 lbs = 2.34 tons/yr

PM-2.5 emissions after controls and throughput limitations (controls shown as percentage)

¹⁾ Conveying 360,000 tons/yr x 0.0046 lb PM/ton x 1 ton/2000 lbs = 0.83 tons/yr

Methodology

¹⁾ Uncontrolled emission factor for conveying from AP-42, Chapter 12.5, Table 12.5.4 (10/86).

**Appendix A: Emission Calculations
Plant 2 PM Summary**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

PLANT 2

Unlimited Coke Throughput 843,150
 Limited Coke Throughput 360,000

PM emissions before controls and throughput limitations

Transporting - Wheel Loaders	=	61.49	tons/yr	
Storage Piles	=	4.33	tons/yr	
¹⁾ Unloading Coke	843,150 tons/yr x 0.00011 lb PM/ton x 1 ton/2000 lbs	=	0.05	tons/yr
²⁾ Screening - Triple Deck	843,150 tons/yr x 0.025 lb PM/ton x 1 ton/2000 lbs	=	10.54	tons/yr
³⁾ Conveying (14 conveyors)	843,150 tons/yr x 0.026 lb PM/ton x 1 ton/2000 lbs	=	153.45	tons/yr
²⁾ Screening - Pep Screens	843,150 tons/yr x 0.025 lb PM/ton x 1 ton/2000 lbs	=	10.54	tons/yr
¹⁾ Loading Coke	843,150 tons/yr x 0.0088 lb PM/ton x 1 ton/2000 lbs	=	3.71	tons/yr
Total PM Emissions Before Controls and Limitations:	=	244.10	tons/yr	55.73 lb/hr

PM-10 emissions before controls and throughput limitations

Transporting - Wheel Loaders	=	15.67	tons/yr	
Storage Piles	=	2.16	tons/yr	
¹⁾ Unloading Coke	843,150 tons/yr x 0.000052 lb PM/ton x 1 ton/2000 lbs	=	0.02	tons/yr
²⁾ Screening - Triple Deck	843,150 tons/yr x 0.0087 lb PM/ton x 1 ton/2000 lbs	=	3.67	tons/yr
³⁾ Conveying (14 conveyors)	843,150 tons/yr x 0.013 lb PM/ton x 1 ton/2000 lbs	=	76.73	tons/yr
²⁾ Screening - Pep Screens	843,150 tons/yr x 0.0087 lb PM/ton x 1 ton/2000 lbs	=	3.67	tons/yr
¹⁾ Loading Coke	843,150 tons/yr x 0.0043 lb PM/ton x 1 ton/2000 lbs	=	1.81	tons/yr
Total PM-10 Emissions Before Controls and Limitations:	=	103.73	tons/yr	23.68 lb/hr

PM-2.5 emissions before controls and throughput limitations

Transporting - Wheel Loaders	=	1.57	tons/yr	
Storage Piles	=	0.84	tons/yr	
¹⁾ Unloading Coke	843,150 tons/yr x 0.000015 lb PM/ton x 1 ton/2000 lbs	=	0.006	tons/yr
²⁾ Screening - Triple Deck	843,150 tons/yr x 0.0087 lb PM/ton x 1 ton/2000 lbs	=	3.67	tons/yr
³⁾ Conveying (14 conveyors)	843,150 tons/yr x 0.0046 lb PM/ton x 1 ton/2000 lbs	=	27.15	tons/yr
²⁾ Screening - Pep Screens	843,150 tons/yr x 0.0087 lb PM/ton x 1 ton/2000 lbs	=	3.67	tons/yr
¹⁾ Loading Coke	843,150 tons/yr x 0.0016 lb PM/ton x 1 ton/2000 lbs	=	0.67	tons/yr
Total PM-2.5 Emissions Before Controls and Limitations:	=	37.57	tons/yr	8.58 lb/hr

PM emissions after throughput limitations

Transporting - Wheel Loaders	=	20.22	tons/yr	
Storage Piles	=	2.11	tons/yr	
¹⁾ Unloading Coke	360,000 tons/yr x 0.00011 lb PM/ton x 1 ton/2000 lbs	=	0.02	tons/yr
²⁾ Screening - Triple Deck	360,000 tons/yr x 0.0022 lb PM/ton x 1 ton/2000 lbs	=	0.40	tons/yr
³⁾ Conveying (14 conveyors)	360,000 tons/yr x 0.026 lb PM/ton x 1 ton/2000 lbs	=	4.68	tons/yr
²⁾ Screening - Pep Screens	360,000 tons/yr x 0.0022 lb PM/ton x 1 ton/2000 lbs	=	0.40	tons/yr
¹⁾ Loading Coke	360,000 tons/yr x 0.0088 lb PM/ton x 1 ton/2000 lbs	=	1.58	tons/yr
Total PM Emissions After Limitations:	=	29.40	tons/yr	6.71 lb/hr

PM-10 emissions after throughput limitations

Transporting - Wheel Loaders	=	5.15	tons/yr	
Storage Piles	=	1.05	tons/yr	
¹⁾ Unloading Coke	360,000 tons/yr x 0.000052 lb PM/ton x 1 ton/2000 lbs	=	0.009	tons/yr
²⁾ Screening - Triple Deck	360,000 tons/yr x 0.00074 lb PM/ton x 1 ton/2000 lbs	=	0.13	tons/yr
³⁾ Conveying (14 conveyors)	360,000 tons/yr x 0.013 lb PM/ton x 1 ton/2000 lbs	=	2.34	tons/yr
²⁾ Screening - Pep Screens	360,000 tons/yr x 0.00074 lb PM/ton x 1 ton/2000 lbs	=	0.13	tons/yr
¹⁾ Loading Coke	360,000 tons/yr x 0.0043 lb PM/ton x 1 ton/2000 lbs	=	0.77	tons/yr
Total PM-10 Emissions After Limitations:	=	9.60	tons/yr	2.19 lb/hr

PM-2.5 emissions after throughput limitations

Transporting - Wheel Loaders	=	0.52	tons/yr	
Storage Piles	=	0.42	tons/yr	
¹⁾ Unloading Coke	360,000 tons/yr x 0.000015 lb PM/ton x 1 ton/2000 lbs	=	0.027	tons/yr
²⁾ Screening - Triple Deck	360,000 tons/yr x 0.00005 lb PM/ton x 1 ton/2000 lbs	=	0.01	tons/yr
³⁾ Conveying (14 conveyors)	360,000 tons/yr x 0.0046 lb PM/ton x 1 ton/2000 lbs	=	11.59	tons/yr
²⁾ Screening - Pep Screens	360,000 tons/yr x 0.00005 lb PM/ton x 1 ton/2000 lbs	=	0.01	tons/yr
¹⁾ Loading Coke	360,000 tons/yr x 0.0016 lb PM/ton x 1 ton/2000 lbs	=	0.29	tons/yr
Total PM-2.5 Emissions After Limitations:	=	12.86	tons/yr	2.94 lb/hr

PM Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput):

= PM Noncombustion Emissions After Controls and Limitations (lb/yr) / Coke Throughput (tons/yr) **0.16**

PM-10 Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput):

= PM-10 Noncombustion Emissions After Controls and Limitations (lb/yr) / Coke Throughput (tons/yr) **0.05**

PM-2.5 Fugitive Emissions After Controls and Limitations (lb/ton of coke throughput):

= PM-2.5 Noncombustion Emissions After Controls and Limitations (lb/yr) / Coke Throughput (tons/yr) **0.07**

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 and Controlled emission factor for screening from AP-42, Chapter 11.19.2 (crushed Stone Processing Operations), Table 11.19.2-2 (8/04).
 One screening unit is included in the calculation.

³⁾ Uncontrolled emission factor for conveying from AP-42, Chapter 12.5, Table 12.5.4 (10/86).

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads
Plant 2 Wheel Loaders

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Plant 2 Wheel Loaders	Maximum number of vehicles*	Number of one-way trips per day per vehicle*	Maximum trips per day* (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Loaded Vehicle (entering plant) (one-way trip)	NA	NA	1645.0	16.23	26704.9	100	0.019	31.2	11371.7
Empty Vehicle (leaving plant) (one-way trip)	NA	NA	1645.0	14.83	24395.4	100	0.019	31.2	11371.7
Totals			3290.0		51100.3			62.3	22743.4

*Number of vehicles varies. Source provided
 Maximum trips per day data.

Average Vehicle Weight Per Trip = 15.5 tons/trip
 Average Miles Per Trip = 0.02 miles/trip

Unmitigated Emission Factor, Ef = $k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	15.5	15.5	15.5	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E \cdot [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, Eext = $E \cdot [(365 - P)/365]$
 where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	5.41	1.38	0.14	lb/mile
Mitigated Emission Factor, Eext =	3.56	0.91	0.09	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Loaded Vehicle (entering plant) (one-way trip)	30.75	7.84	0.78	20.22	5.15	0.52	10.11	2.58	0.26
Empty Vehicle (leaving plant) (one-way trip)	30.75	7.84	0.78	20.22	5.15	0.52	10.11	2.58	0.26
Totals	61.49	15.67	1.57	40.43	10.30	1.03	20.22	5.15	0.52

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit

Wheel Loader

Coke weighs 26 lbs/cu ft, and 4 cu yd bucket = 108 cu ft. Therefore, 26 lbs/cu ft * 108 cu ft per bucket = 1.404 tons per bucket
 200 ft per trip / 5280 ft per mile = 0.0379 miles per trip

**Appendix A: Emission Calculations
Plant 2 Storage Piles**

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

PLANT 1

Unlimited Coke Throughput 843,150
 Limited Coke Throughput 360,000

Fugitive Emissions from Storage Piles

Coal Storage Pile Area	4.00	acre	
Annual Pile Days	365	days/yr	
Coal Silt Content (s)	4.9	wt. %	AP-42; Table 13.2.4-1, Coal (as received); 11/06
Threshold Wind Speed (f)	15.0	% of time	% of time that wind speed exceeds 12 mph at mean pile height, from IDEM Met data file for Lake County at http://www.in.gov/idem/programs/air/modeling/index.html
Days with > 0.01" of precipitation (p)	125	days/yr	AP-42; Figure 13.2.2-1; 11/06 for NW Indiana
PM Particle Size Multiplier	1.0		Air Pollution Engineering Manual; p 136; AWMA; 1992
PM-10 Particle Size Multiplier	0.5		Air Pollution Engineering Manual; p 136; AWMA; 1992
PM-2.5 Particle Size Multiplier	0.2		Air Pollution Engineering Manual; p 136; AWMA; 1992
PM Emissions Factor	5.67	lb/acre/day	Air Pollution Engineering Manual; p 136; Eqn. 5; AWMA; 1992
PM-10 Emissions Factor	2.84	lb/acre/day	Air Pollution Engineering Manual; p 136; Eqn. 5; AWMA; 1992
PM-2.5 Emissions Factor	1.13	lb/acre/day	Air Pollution Engineering Manual; p 136; Eqn. 5; AWMA; 1992
Hourly PM Emissions	22.69	lb/hr	
Hourly PM-10 Emissions	11.34	lb/hr	Hourly Emissions = Coal Storage Pile Area * Emission Factor
Hourly PM-2.5 Emissions	4.54	lb/hr	
Annual PM Emissions	4.14	tpy	
Annual PM-10 Emissions	2.07	tpy	Annual Emissions = Coal Storage Pile Area * Annual Pile Days * Emission Factor * (1 ton/2,000 lbs)
Annual PM-2.5 Emissions	0.83	tpy	

Truck Loading Operations Disturbance of Finished Coke Piles

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).

$$E = k * 0.0032 * (U/5)^{1.3} / (M/2)^{1.4}$$

where E = calculated emission factor (lb/ton)
 k = 0.74 particle size multiplier (k=0.74 for PM-30, k=0.35 for PM-10, k=0.053 for PM-2.5)
 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
 Emission Factor (E) PM-2.5 = 3.152E-05

Truck Loading Emissions Unlimited

PM (tpy) = Throughput Unlimited (tpy) * Emis. Factor (E) PM + 2000 lbs/ton = 0.19
 PM-10 (tpy) = Throughput Unlimited (tpy) * Emis. Factor (E) PM-10 + 2000 lbs/ton = 0.09
 PM-2.5 (tpy) = Throughput Unlimited (tpy) * Emis. Factor (E) PM-2.5 + 2000 lbs/ton = 0.013

Truck Loading Emissions Limited

PM (tpy) = Throughput Limited (tpy) * Emis. Factor (E) PM + 2000 lbs/ton = 0.08
 PM-10 (tpy) = Throughput Limited (tpy) * Emis. Factor (E) PM-10 + 2000 lbs/ton = 0.04
 PM-2.5 (tpy) = Throughput Limited (tpy) * Emis. Factor (E) PM-2.5 + 2000 lbs/ton = 0.006

	Total Emissions from Storage Piles Unlimited (tpy)	Total Emissions from Storage Piles Limited (tpy)	Limited and Controlled (tpy)
PM	4.33	4.22	2.11
PM-10	2.16	2.11	1.05
PM-2.5	0.84	0.83	0.42

Appendix A: Emissions Calculations
Screening Operation: Screen Sc-P1, Hopper Hp-P1, Conveyor Cv-P1-3

Company Name: Mid-Continent Coal & Coke Company
Address: One North Broadway, Gary, IN 46402
Permit No.: T089-43105-00173
Reviewer: Travis Flock

Throughput (tons per year)** 360,000 tons per year

Emission Unit	EF (lb/ton)	PM (tons/yr)	EF (lb/ton)	PM-10 (tons/yr)	EF (lb/ton)	PM2.5 (tons/yr)
Screen Sc-P1	0.0250	4.5000	0.0087	1.5660	0.0087	1.5660
Conveyor (Transfer) Cv-P1-3	0.0260	4.6800	0.0130	2.3400	0.0046	0.8280
Loading	0.0088	1.5840	0.0043	0.7740	0.0016	0.2880
Unloading	0.0001	0.0180	0.0001	0.0094	0.000015	0.0027
Total (tons/yr)		10.78		4.69		2.68

Limited Throughput 300,000 tons/yr

Emission Unit	EF (lb/ton)	PM (tons/yr)	EF (lb/ton)	PM-10 (tons/yr)	EF (lb/ton)	PM2.5 (tons/yr)
Screen Sc-P1	0.0250	3.7500	0.0087	1.3050	0.0087	1.3050
Conveyor (Transfer) Cv-P1-3	0.0260	3.9000	0.0130	1.9500	0.0046	0.6900
Loading	0.0088	1.3200	0.0043	0.6450	0.0016	0.2400
Unloading	0.0001	0.0165	0.000052	0.0078	0.000015	0.0023
Total (tons/yr)		8.99		3.91		2.24

** Existing enforceable throughput limit for coke, screening operation is backup for main screening

Methodology:

Emission factors for screening based on AP-42 Table 11.19.2-2 (Crushed Stone Processing Operations)

Emission factors for conveyor transfer based on AP-42 Table 12.5-4 (Uncontrolled PM factors for open dust sources at iron and steel mills)

Loading and unloading EF based on AP-42 Table 12.5-4 batch drop (low silt slag) and pile formation (coal)



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

October 13, 2020

Rod Bellamy
Mid Continent Coal & Coke contractor of USS Gary
20600 Chagrin Blvd Ste 850
Cleveland OH 44122

Re: Public Notice
Mid-Continent Coal & Coke Company
Permit Level: Title V Renewal Administrative
Permit
Permit Number: 089-43105-00173

Dear Rod Bellamy:

Enclosed is a copy of the preliminary findings for your draft air permit, including the draft permit, Technical Support Document, emission calculations, and the Notice of 30-Day Period for Public Comment.

Our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person. The Notice of 30-Day Period for Public Comment (without supporting documents) has also been sent to the OAQ Permits Branch Interested Parties List and, if applicable, your Consultant/Agent and/or Responsible Official/Authorized Individual.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: <https://www.in.gov/idem/5474.htm>

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Gary Public Library and Cultural Center, 220 W 5th Ave, Gary IN 46402-1270. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Travis Flock, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-1782 or dial (317) 233-1782.

Sincerely,

L. Pogost

L. Pogost
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter 8/10/2020



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

October 13, 2020

To: Gary Public Library and Cultural Center 220 W 5th Ave Gary IN 46402-1270

From: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Mid-Continent Coal & Coke Company
Permit Number: 089-43105-00173

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 4/2019



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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

Notice of Public Comment

October 13, 2020
Mid-Continent Coal & Coke Company
089-43105-00173

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM's Public Notice website at <https://www.in.gov/idem/5474.htm>.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at JBRUSH@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover Letter 2/28/2020



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

October 13, 2020

A 30-day public comment period has been initiated for:

Permit Number: 089-43105-00173
Applicant Name: Mid-Continent Coal & Coke Company
Location: Gary, Lake County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

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

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification 1/9/2017

Mail Code 61-53

IDEM Staff	LPOGOST Mid Continent Coal & Coke 089-43105-00173 (draft/ 1 of 2)		October 13, 2020	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Rod Bellamy Mid Continent Coal & Coke contractor of USS Gary W 20600 Chagrin Blvd Ste 850 Cleveland OH 44122 (Source CAATS)										
2		Gary Mayors Office 401 Broadway # 102 Gary IN 46402 (Local Official)										
3		Gary City Health Department 1145 W 5th Ave Gary IN 46402 (Health Department)										
4		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
5		Lowell Town Council and Town Manager PO Box 157, 501 East Main Street Lowell IN 46356 (Local Official)										
6		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
7		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
8		Northwestern In Regional Planning Com (NIRPC) 6100 Southport Road Portage IN 46368 (Affected Party)										
9		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
10		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
11		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
12		General Manager US Steel One North Broadway Gary IN 46402 (Source ? addl contact)										
13		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
14		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
15		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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Mail Code 61-53

IDEM Staff	LPOGOST Mid Continent Coal & Coke 089-43105-00173 (draft/ 2 of 2)		October 13, 2020	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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1		City of Gary Dept. of Environmental Affairs 839 Broadway Suite N206 Gary IN 46402 (Local Official)										
2		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
3		Gary Public Library and Cultural Center 220 W 5th Ave Gary IN 46402-1270 (Library)										
4		Tony DeMarco BCA Environmental Consultants, LLC 224 West Jefferson Blvd., Suite 204 South Bend IN 46601 (Consultant)										
5		Heather Leddy 1516 Prince Drive Dyer IN 46311 (Affected Party)										
6		Jeff Mayes News-Dispatch 422 Franklin St Michigan City IN 46360 (Affected Party)										
7		Lake County Health Department 2900 W 93rd Ave Crown Point IN 46307 (Health Department)										
8												
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15												

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