

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
and ENHANCED NEW SOURCE REVIEW
OFFICE OF AIR MANAGEMENT**

**Carb-Rite Company
23810 Highland Street
Schneider, Indiana 46376**

(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.

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 2-8 and 326 IAC 2-1-3.2, 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.: F089-8579-00093	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary metallurgical coke and petroleum coke processing plant.

Responsible Official: Nadine Bognar
Source Address: 23810 Highland Street, Schneider, Indiana 46367
Mailing Address: 23810 Highland Street, Schneider, Indiana 46367
SIC Code: 2999 and 3999
County Location: Lake
County Status: Located in area of Lake County that is attainment for all criteria pollutants except for ozone
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source under Emission Offset Rules;

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

(a) Outdoors

(1) 6' x 16' Scalping Screen Line (ID# 2) with a maximum capacity of 50 tons of met coke or sand per hour and consisting of the following equipment:

- (A) one (1) conveyor (ID# 2A), and
- (B) one (1) 6' x 16' scalping screen (ID# 2B).

There are no additional air pollution control devices attached to any of these equipment.

(b) Raw Material Storage Building

(1) Bulk Truck Unloading (ID# 4) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.

(c) Dryer Building

(1) Rotary Dryer Line (ID# 6) with a maximum capacity of 30 tons of met coke or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) dryer loading bin (ID# 6A),
- (B) one (1) feed hopper (ID# 6B),
- (C) one (1) vibrating pan feeder (ID# 6C),
- (D) one (1) conveyor (ID# 6D),

- (E) one (1) natural gas-fired rotary dryer (ID# 6E) with a maximum heat input rate of 37.4 million British Thermal Units per hour (MMBTU/hr). This dryer uses no. 2 fuel oil as a back-up fuel.
- (F) one (1) cooling screw (ID# 6F),
- (G) one (1) belt conveyor (ID# 6G),
- (H) one (1) 4' x 8' screen (ID# 6H),
- (I) one (1) dryer discharge bin (ID# 6I), and
- (J) various product storage bins (ID# 6J).

The rotary dryer, cooling screw, belt conveyor, and 4' x 8' screen are attached to a cyclone-baghouse system (ID# DSS-1) and exhaust through a stack (ID# DSS-1).

- (2) Crushing Line (ID# 7) with a maximum capacity of 50 tons of met coke or pet coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 7A),
 - (B) one (1) belt conveyor (ID# 7B),
 - (C) one (1) enclosed crusher (ID# 7C), and
 - (D) one (1) discharge storage bin (ID# 7D).

There are no additional air pollution control devices attached to any of these equipment.

(d) Screening Building

- (1) Bulk Truck Unloading (ID# 9) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.
- (2) One Meter Screen Line (ID# 10) with a maximum capacity of 10 tons of pet coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 10A),
 - (B) one (1) vibrating pan feeder (ID# 10B),
 - (C) one (1) bucket elevator (ID# 10C),
 - (D) one (1) conveyor (ID# 10D),
 - (E) one (1) enclosed one meter screen (ID# 10E),
 - (F) one (1) inside storage bin (ID# 10F), and
 - (G) one (1) inside storage area (ID# 10G).

There are no additional air pollution control devices attached to any of these equipment.

(e) Mix/Storage Building

- (1) Bulk Truck Unloading (ID# 11) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.
- (2) Bulk Rail Unloading (ID# 13) with a maximum capacity of 22.5 tons of met coke or pet coke per hour and consisting of the following equipment:

- (A) one (1) underground feed hopper (ID# 13A),
- (B) one (1) fixed conveyor (ID# 13B), and
- (C) one (1) movable conveyor (ID# 13C).

There are no additional air pollution control devices attached to any of these equipment.

(f) Warehouse/Bagging Building

- (1) Bulk Loadout Line (ID# 16) with a maximum capacity of 50 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 16A),
- (B) one (1) vibrating pan feeder (ID# 16B),
- (C) one (1) belt conveyor (ID# 16C), and
- (D) one (1) loading hopper with spout (ID# 16D).

The loading hopper with spout is attached to a dust collector (ID# WBBSS-2) and exhausts through a stack (ID# WBBSS-2).

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

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

(a) Outdoors

- (1) Outside storage piles (ID# 1). Emissions from storage piles are considered fugitive emissions.
- (2) Crushing Line (ID# 3) with a maximum capacity of 36 tons of met coke per hour and consisting of the following equipment:
 - (A) one (1) vibrating pan feeder (ID# 3A),
 - (B) two (2) conveyors (ID#s 3B and 3C),
 - (C) one (1) enclosed crusher (ID# 3D), and
 - (D) one (1) holding bin (ID# 3E).

There are no additional air pollution control devices attached to any of these equipment. This crushing line, although considered an insignificant activity, has applicable requirements in section D.1.

(b) Dryer Building

- (1) Bulk Truck Unloading (ID# 5) with a maximum capacity of 250 tons of met coke per hour. This activity, although considered insignificant, has applicable requirements in section D.3.
- (2) Two Meter Screen Line (ID# 8) with a maximum capacity of 15 tons of met coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 8A),

- (B) one (1) bucket elevator (ID# 8B),
- (C) one (1) belt conveyor (ID# 8C),
- (D) one (1) enclosed two meter screen (ID# 8D), and
- (E) various storage bins (ID# 8E).

The two meter screen is attached to filter boxes (ID# DSS-2), which does not need to be operated at all times, but only at the source's discretion; and exhausts through a stack (ID# DSS-2). This two meter screen line, although considered an insignificant activity, has applicable requirements in section D.3.

(c) Mix/Storage Building

- (1) Blending Line (ID# 12) with a maximum capacity of 17 tons of met coke-pet coke blend per hour and consisting of the following equipment:

- (A) various met coke inside storage bins (ID# 12A),
- (B) one (1) pet coke inside storage pile (ID# 12B), and
- (C) one (1) blending area (ID# 12C).

There are no additional air pollution control devices attached to any of these equipment. This blending line, although considered an insignificant activity, has applicable requirements in section D.5.

(d) Warehouse/Bagging Building

- (1) Bagging Line (ID# 14) with a maximum capacity of 50 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 14A),
- (B) one (1) conveyor (ID# 14B),
- (C) one (1) discharge tank (ID# 14C), and
- (D) one (1) bagging machine (ID# 14D).

The bagging machine is attached to a dust collector (ID# WBBSS-1) and exhausts through a stack (ID# WBBSS-1). This bagging line, although considered an insignificant activity, has applicable requirements in section D.6.

- (2) Supersacker Line (ID# 15) with a maximum capacity of 13 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 15A),
- (B) one (1) vibrating pan feeder (ID# 15B),
- (C) one (1) bucket elevator (ID# 15C),
- (D) one (1) discharge tank (ID# 15D), and
- (E) one (1) supersacker machine (ID# 15E).

The supersacker machine is attached to a dust collector (ID# WBBSS-1) and exhausts through a stack (ID# WBBSS-1). This supersacker line, although considered an insignificant activity, has applicable requirements in section D.6.

(e) Sand Mix Building

- (1) Sand Mix Line (ID# 17) with a maximum capacity of 20 tons of sand per hour and consisting of the following equipment:
- (A) one (1) intermediate outside storage area (ID# 17A),
 - (B) one (1) wet yellow sand inside storage bin (ID# 17B),
 - (C) one (1) wet torpedo sand inside storage bin (ID# 17C),
 - (D) one (1) bond clay inside storage bin (ID# 17D),
 - (E) one (1) pitch inside storage bin (ID# 17E),
 - (F) one (1) feed hopper (ID# 17F),
 - (G) one (1) conveyor (ID# 17G),
 - (H) one (1) self-contained muller (ID# 17H),
 - (I) one (1) belt conveyor with pulley mixer (ID# 17I), and
 - (J) one (1) inside runner-sand mix storage bin (ID# 17J).

There are no additional air pollution control devices attached to any of these equipment. This sand mix line, although considered an insignificant activity, has applicable requirements in section D.7.

- (f) Six (6) natural gas-fired space heaters with heat input less than ten (10) million British Thermal Units per hour (MMBTU/hr);
- (g) Combustion source flame safety purging on startup;
- (h) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (i) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (j) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (k) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. This activity, although considered insignificant, has applicable requirements in section D.8;
- (l) Cleaners and solvents characterized as follows:
- (1) having vapor pressure equal to or less than 2 kilopascals (kPa); 15 millimeters of mercury (mm Hg); or 0.3 pounds per square inch (psi) measured at 38 degrees centigrade (°C) (100 °F) or
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F);

the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months. This activity, although considered insignificant, has applicable requirements in section D.8;

- (m) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment. This activity, although considered insignificant, has applicable requirements in section D.9;
- (n) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (o) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment; and
- (p) Travels on paved and unpaved roadways. Emissions from travel on paved and unpaved roadways are considered fugitive emissions.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (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, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, 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.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

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, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-8-6]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.

- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

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.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

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

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAM, may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:

- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) 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.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (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, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The 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 2-8-4(3); and

- (5) Such other facts as specified in Sections D of this permit, IDEM, OAM, may require to determine the compliance status of the source.

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

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

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

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

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

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes 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, OAM, 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 No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAM, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

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

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 2-8-4(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

- (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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) 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.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:
- Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- within ten (10) calendar days from the date of the discovery of the deviation.
- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.
- A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.
- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP 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 2-8-4(5)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, 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 2-8-8(a)]
- (c) Proceedings by IDEM, OAM, 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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]
- (2) If IDEM, OAM, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
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 2-8 until IDEM, OAM, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, any additional information identified as needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-8-10] [326 IAC 2-8-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]

Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated by U.S. EPA.

B.20 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-8-15(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional condition:

For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

B.21 Operational Flexibility [326 IAC 2-8-15]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without 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 approval required by 326 IAC 2-1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAM , in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

(b) 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 by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAM, 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.22 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-8-5(a)(4)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]

- (2) The Permittee, and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.24 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-8-10]

Pursuant to 326 IAC 2-1-6 and 2-8-10:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-8-10.
- (c) IDEM, OAM shall reserve the right to issue a new permit.

B.25 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.
- (b) 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 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.26 Enhanced New Source Review [326 IAC 2]

The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any previously unpermitted facilities and such facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
- (1) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per three hundred sixty-five (365) consecutive day period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
- (2) The potential to emit any regulated pollutant from the entire source, except particulate matter (PM) and volatile organic compounds (VOCs), shall be limited to less than one-hundred (100) tons per three hundred sixty-five (365) consecutive day period;

- (3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per three hundred sixty-five (365) consecutive day period; and
- (4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per three hundred sixty-five (365) consecutive day period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), emissions of particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per three hundred sixty-five (365) consecutive day period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

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

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

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

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

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

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

C.6 Fugitive Dust Emissions [326 IAC 6-1-11.1]

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

All air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Stack Height [326 IAC 1-7]

- (a) The Permittee shall comply with the provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.
- (b) Any change in an applicable stack shall require prior approval from IDEM, OAM.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

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

All required notifications shall be submitted to:

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

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by the IDEM, OAM.

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

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

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

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

in writing no more than ninety (90) days after receipt of this permit, with full justification of the reasons for inability to meet this date.

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

C.12 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.14 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

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

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

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

within ninety (90) days from the date of issuance of this permit.
- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

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

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4][326 IAC 2-8-5] [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

- (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that meets the requirements of 326 IAC 2-6 (Emission Reporting). This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

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

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

C.20 Monitoring Data Availability

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

C.21 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
- (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.22 General Reporting Requirements [326 IAC 2-8-4(3)(C)]

- (a) To affirm that the source has met all the requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (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, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations as described in Section B - Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

Outdoors

(1) 6' x 16' Scalping Screen Line (ID# 2) with a maximum capacity of 50 tons of met coke or sand per hour and consisting of the following equipment:

- (A) one (1) conveyor (ID# 2A), and
- (B) one (1) 6' x 16' scalping screen (ID# 2B).

There are no additional air pollution control devices attached to any of these equipment.

Insignificant activity:

(2) Crushing Line (ID# 3) with a maximum capacity of 36 tons of met coke per hour and consisting of the following equipment:

- (A) one (1) vibrating pan feeder (ID# 3A),
- (B) two (2) conveyors (ID#s 3B and 3C),
- (C) one (1) enclosed crusher (ID# 3D), and
- (D) one (1) holding bin (ID# 3E).

There are no additional air pollution control devices attached to any of these equipment. This crushing line, although considered an insignificant activity, has applicable requirements.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the 6' x 16' scalping screen line and crushing line shall be limited to 2.1 and 0.3 pounds per hour, respectively. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.1.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the 6' x 16' scalping screen line and crushing line shall be limited to 4.1 and 0.8 pounds per hour, respectively. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

Compliance Determination Requirements

D.1.3 Testing Requirements [326 IAC 2-8-5(1)]

Testing of the 6' x 16' scalping screen line and crushing line is not required by this permit. However, if testing is required, compliance with the PM-10 (filterable and condensable) and PM limits specified in Condition D.1.1 and D.1.2, respectively, shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on these facilities under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.2

FACILITY OPERATION CONDITIONS

Raw Material Storage Building

Bulk Truck Unloading (ID# 4) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the bulk truck unloading shall be limited to 2.9 pounds per hour. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.2.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the bulk truck unloading shall be limited to 6.0 pounds per hour. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with this limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-8-5(1)]

Testing of the bulk truck unloading is not required by this permit. However, if testing is required, compliance with the PM-10 (filterable and condensable) and PM limit specified in Condition D.2.1 and D.2.2, respectively, shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on these facilities under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.3

FACILITY OPERATION CONDITIONS

Dryer Building

Insignificant activity:

- (1) Bulk Truck Unloading (ID# 5) with a maximum capacity of 250 tons of met coke per hour. This activity, although considered an insignificant activity, has applicable requirements.
- (2) Rotary Dryer Line (ID# 6) with a maximum capacity of 30 tons of met coke or met coke-pet coke blend and consisting of the following equipment:
 - (A) one (1) dryer loading bin (ID# 6A),
 - (B) one (1) feed hopper (ID# 6B),
 - (C) one (1) vibrating pan feeder (ID# 6C),
 - (D) one (1) conveyor (ID# 6D),
 - (E) one (1) natural gas-fired rotary dryer (ID# 6E) with a maximum heat input rate of 37.4 million British Thermal Units per hour (MMBTU/hr). This dryer uses no. 2 fuel oil as a back-up fuel.
 - (F) one (1) cooling screw (ID# 6F),
 - (G) one (1) belt conveyor (ID# 6G),
 - (H) one (1) 4' x 8' screen (ID# 6H),
 - (I) one (1) dryer discharge bin (ID# 6I), and
 - (J) various product storage bins (ID# 6J).

The rotary dryer, cooling screw, belt conveyor, and 4' x 8' screen are attached to a cyclone-baghouse system (ID# DSS-1) and exhaust through a stack (ID# DSS-1).

- (3) Crushing Line (ID# 7) with a maximum capacity of 50 tons of met coke or pet coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 7A),
 - (B) one (1) belt conveyor (ID# 7B),
 - (C) one (1) enclosed crusher (ID# 7C), and
 - (D) one (1) discharge storage bin (ID# 7D).

There are no additional air pollution control devices attached to any of these equipment.

Insignificant activity:

- (4) Two Meter Screen Line (ID# 8) with a maximum capacity of 15 tons of met coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 8A),
 - (B) one (1) bucket elevator (ID# 8B),
 - (C) one (1) belt conveyor (ID# 8C),
 - (D) one (1) enclosed two meter screen (ID# 8D), and
 - (E) various storage bins (ID# 8E).

The two meter screen is attached to filter boxes (ID# DSS-2) and exhausts through a stack (ID# DSS-2). The two meter screen line, although considered an insignificant activity, has applicable requirements.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the bulk truck unloading, rotary dryer line, crushing line, and two meter screen line shall be limited to 0.01, 4.7, 2.6, and 0.6 pounds per hour, respectively. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.3.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the bulk truck unloading, rotary dryer line, crushing line, and two meter screen line shall be limited to 0.03, 19.0, 5.8, and 1.3 pounds per hour, respectively. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

D.3.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1][326 IAC 1-7]

The no. 2 distillate fuel oil usage for the rotary dryer shall be limited to 676 kilogallons per 12 consecutive month period rolled on a monthly basis and the sulfur content of the fuel oil shall not exceed 0.5 percent (0.5%) by weight. This shall limit the SO₂ emissions from this facility to 24 tons per 12 consecutive month period rolled on a monthly basis. Therefore, 326 IAC 1-7 (Stack Height) and 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) does not apply.

D.3.4 Preventive Maintenance Plan [326 IAC 2-8-3(c)(6)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the rotary dryer line and its control device.

Compliance Determination Requirements

D.3.5 Testing Requirements [326 IAC 2-8-5(1)]

During the period between 24 and 36 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing on the rotary dryer line utilizing Methods 5 or 17 (40 CFR 60, Appendix A) for PM and Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM-10, or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensable PM-10.

D.3.6 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed five-tenths percent (0.5%) by weight by:

- (a) Providing vendor analysis of fuel delivered, if accompanied by a certification; or
- (b) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.3.7 Visible Emissions Notations

- (a) Daily visible emission notations of the rotary dryer line stack exhaust shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.3.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the rotary dryer line, at least once per day when the rotary dryer line is in operation and venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 4.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.3.9 Broken Bag or Failure Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.
- (b) Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated, For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.10 Record Keeping Requirements

- (a) To document compliance with Condition D.3.1 and D.3.2, the Permittee shall maintain records of daily visible emission notations of the rotary dryer line stack exhaust.
- (b) To document compliance with Condition D.3.1 and D.3.2, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure

- (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
- (c) To document compliance with Condition D.3.3, the Permittee shall maintain records in accordance with (1) through (4) below.
- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and
 - (4) Fuel supplier certifications. The fuel supplier certification shall contain, as a minimum, the following:
 - (A) The name of the fuel supplier; and
 - (B) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

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

D.3.11 Reporting Requirements

That a quarterly summary to document compliance with operation condition no. D.3.3 shall be submitted upon request to the address listed in Section C - General Reporting Requirements, within thirty (30) days after the end of the reporting period. These reports shall include the following:

- (a) Total number of gallons of no. 2 distillate fuel oil used for each month and previous 12-month period; and
- (b) Monthly average sulfur content of no. 2 distillate fuel oil used.

SECTION D.4

FACILITY OPERATION CONDITIONS

Screening Building

- (1) Bulk Truck Unloading (ID# 9) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.
- (2) One Meter Screen Line (ID# 10) with a maximum capacity of 10 tons of pet coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 10A),
 - (B) one (1) vibrating pan feeder (ID# 10B),
 - (C) one (1) bucket elevator (ID# 10C),
 - (D) one (1) conveyor (ID# 10D),
 - (E) one (1) enclosed one meter screen (ID# 10E),
 - (F) one (1) inside storage bin (ID# 10F), and
 - (G) one (1) inside storage area (ID# 10G).

There are no additional air pollution control devices attached to any of these equipment.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the bulk truck unloading and one meter screen line shall be limited to 2.9 and 1.5 pounds per hour, respectively. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.4.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the bulk truck unloading and one meter screen line shall be limited to 6.0 and 3.1 pounds per hour, respectively. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

Compliance Determination Requirements

D.4.3 Testing Requirements [326 IAC 2-8-5(1)]

Testing of the bulk truck unloading and one meter screen line is not required by this permit. However, if testing is required, compliance with the PM-10 (filterable and condensable) and PM limits specified in Condition D.4.1 and D.4.2, respectively, shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on these facilities under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.5 FACILITY OPERATION CONDITIONS

Mix/Storage Building

- (1) Bulk Truck Unloading (ID# 11) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.

Insignificant activity:

- (2) Blending Line (ID# 12) with a maximum capacity of 17 tons of met coke-pet coke blend per hour and consisting of the following equipment:
- (A) various met coke inside storage bins (ID# 12A),
 - (B) one (1) pet coke inside storage pile (ID# 12B), and
 - (C) one (1) blending area (ID# 12C).

There are no additional air pollution control devices attached to any of these equipment. This blending line, although considered an insignificant activity, has applicable requirements.

- (3) Bulk Rail Unloading (ID# 13) with a maximum capacity of 22.5 tons of met coke or pet coke per hour and consisting of the following equipment:
- (A) one (1) underground feed hopper (ID# 13A),
 - (B) one (1) fixed conveyor (ID# 13B), and
 - (C) one (1) movable conveyor (ID# 13C).

There are no additional air pollution control devices attached to any of these equipment.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.5.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the bulk truck unloading, blending line, and bulk rail unloading shall be limited to 2.9, 0.4 and 2.3 pounds per hour, respectively. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.5.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the bulk truck unloading, blending line, and bulk rail unloading shall be limited to 6.0, 0.8, and 4.9 pounds per hour, respectively. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

Compliance Determination Requirements

D.5.3 Testing Requirements [326 IAC 2-8-5(1)]

Testing of the bulk truck unloading, blending line, and bulk rail unloading is not required by this permit. However, if testing is required, compliance with the PM-10 (filterable and condensable) and PM limits specified in Condition D.5.1 and D.5.2, respectively, shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on these facilities under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.6

FACILITY OPERATION CONDITIONS

Warehouse/Bagging Building

Insignificant activity:

- (1) Bagging Line (ID# 14) with a maximum capacity of 50 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 14A),
- (B) one (1) conveyor (ID# 14B),
- (C) one (1) discharge tank (ID# 14C), and
- (D) one (1) bagging machine (ID# 14D).

The bagging machine is attached to a dust collector (ID# WBBSS-1) and exhausts through a stack (ID# WBBSS-1). This bagging line, although considered an insignificant activity, has applicable requirements.

Insignificant activity:

- (2) Supersacker Line (ID# 15) with a maximum capacity of 13 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 15A),
- (B) one (1) vibrating pan feeder (ID# 15B),
- (C) one (1) bucket elevator (ID# 15C),
- (D) one (1) discharge tank (ID# 15D), and
- (E) one (1) supersacker machine (ID# 15E).

The supersacker machine is attached to a dust collector (ID# WBBSS-1) and exhausts through a stack (ID# WBBSS-1). This supersacker line, although considered an insignificant activity, has applicable requirements.

- (3) Bulk Loadout Line (ID# 16) with a maximum capacity of 50 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 16A),
- (B) one (1) vibrating pan feeder (ID# 16B),
- (C) one (1) belt conveyor (ID# 16C), and
- (D) one (1) loading hopper with spout (ID# 16D).

The loading hopper with spout is attached to a dust collector (ID# WBBSS-2) and exhausts through a stack (ID# WBBSS-2).

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.6.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the bagging line, supersacker line, and bulk loadout line shall be limited to 0.7, 0.9, and 3.4 pounds per hour, respectively. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.6.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the bagging line, supersacker line, and bulk loadout line shall be limited to 1.6, 1.9, and 7.3 pounds per hour, respectively. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

Compliance Determination Requirements

D.6.3 Testing Requirements [326 IAC 2-8-5(1)]

Testing of the bagging line, supersacker line, and bulk loadout line is not required by this permit. However, if testing is required, compliance with the PM-10 (filterable and condensable) and PM limits specified in Condition D.6.1 and D.6.2, respectively, shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on these facilities under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.7

FACILITY OPERATION CONDITIONS

Sand Mix Building

Insignificant activity:

Sand Mix Line (ID# 17) with a maximum capacity of 20 tons of sand per hour and consisting of the following equipment:

- (A) one (1) intermediate outside storage area (ID# 17A),
- (B) one (1) wet yellow sand inside storage bin (ID# 17B),
- (C) one (1) wet torpedo sand inside storage bin (ID# 17C),
- (D) one (1) bond clay inside storage bin (ID# 17D),
- (E) one (1) pitch inside storage bin (ID# 17E),
- (F) one (1) feed hopper (ID# 17F),
- (G) one (1) conveyor (ID# 17G),
- (H) one (1) self-contained muller (ID# 17H),
- (I) one (1) belt conveyor with pulley mixer (ID# 17I), and
- (J) one (1) inside runner-sand mix storage bin (ID# 17J).

There are no additional air pollution control devices attached to any of these equipment. This sand mix line, although considered an insignificant activity, has applicable requirements.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.7.1 Particulate Matter less than 10 microns (PM-10) [326 IAC 2-8-4]

The PM-10 emissions from the sand mix line shall be limited to 0.01 pound per hour. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.7.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The particulate matter (PM) emissions from the sand mix line shall be limited to 0.02 pound per hour. Therefore, the PSD Rules (326 IAC 2-2) do not apply. Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Process Operations).

Compliance Determination Requirements

D.7.3 Testing Requirements [326 IAC 2-8-5(1)]

Testing of the sand mix line is not required by this permit. However, if testing is required, compliance with the PM-10 (filterable and condensable) and PM limits specified in Condition D.7.1 and D.7.2, respectively, shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.8

FACILITY OPERATION CONDITIONS

Insignificant activity:

- (1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. This activity, although considered insignificant, has applicable requirements.
- (2) Cleaners and solvents characterized as follows:
 - (A) having a vapor pressure equal to or less than 2 kilopascals (kPa); 15 millimeters of mercury (mm Hg); or 0.3 pounds per square inch (psi) measured at 38 degrees centigrade (°C) (100 °F) or
 - (B) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F);

the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months (one (1) closed-top solvent degreaser (ID# CCD1). This activity, although considered insignificant, has applicable requirements.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.8.1 Volatile Organic Compounds (VOC) [326 IAC 8-3]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) the solvent is agitated; or
 - (C) the solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
 - (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Compliance Determination Requirement

D.8.2 Testing Requirements [326 IAC 2-8-5(1)]

Testing of these facilities is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-8-4 and 326 IAC 2-8-5.

SECTION D.9 FACILITY OPERATION CONDITIONS

Insignificant activity:

The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment. This activity, although considered insignificant, has applicable requirements.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.9.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from brazing equipment, cutting torches, soldering equipment, and welding equipment shall not exceed allowable PM emission rate based on the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

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

or

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

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

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

Compliance Determination Requirement

D.9.2 Testing Requirements [326 IAC 2-8-5(1)]

Testing of these facilities is not specifically required by this permit. However, this does not preclude testing requirements on these facilities under 326 IAC 2-8-4 and 326 IAC 2-8-5.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Carb-Rite Company
Source Address: 23810 Highland Street, Schneider, Indiana 46376
Mailing Address: 23810 Highland Street, Schneider, Indiana 46376
FESOP No.: F089-8579-00093

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:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 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:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Carb-Rite Company
Source Address: 23810 Highland Street, Schneider, Indiana 46376
Mailing Address: 23810 Highland Street, Schneider, Indiana 46376
FESOP No.: F089-8579-00093

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2
9 1. This is an emergency as defined in 326 IAC 2-7-1(12) CThe Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) CThe Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
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 MANAGEMENT
 COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Carb-Rite Company
 Source Address: 23810 Highland Street, Schneider, Indiana 46376
 Mailing Address: 23810 Highland Street, Schneider, Indiana 46376
 FESOP No.: F089-8579-00093

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

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g., Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
 Title/Position: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP)

Source Background And Description

Source Name: Carb-Rite Company
Source Location: 23810 Highland Street, Schneider, Indiana 46367
County: Lake County
SIC Code: 2999 and 3999
Operation Permit No.: F089-8579-00093
Permit Reviewer: Marco A. Salenda

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Carb-Rite Company relating to the operation of a stationary metallurgical coke and petroleum coke processing plant.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) Dryer Building
 - (1) Rotary Dryer Line (ID# 6) with a maximum capacity of 30 tons of met coke or met coke-pet coke blend and consisting of the following equipment:
 - (A) one (1) dryer loading bin (ID# 6A),
 - (B) one (1) feed hopper (ID# 6B),
 - (C) one (1) vibrating pan feeder (ID# 6C),
 - (D) one (1) conveyor (ID# 6D),
 - (E) one (1) natural gas-fired rotary dryer (ID# 6E) with a maximum heat input rate of 37.4 million British Thermal Units per hour (MMBTU/hr). This dryer uses no. 2 fuel oil as a back-up fuel.
 - (F) one (1) cooling screw (ID# 6F),
 - (G) one (1) belt conveyor (ID# 6G),
 - (H) one (1) 4' x 8' screen (ID# 6H),
 - (I) one (1) dryer discharge bin (ID# 6I), and
 - (J) various product storage bins (ID# 6J).

The rotary dryer, cooling screw, belt conveyor, and 4' x 8' screen are attached to a cyclone-baghouse system (ID# DSS-1) and exhaust through a stack (ID# DSS-1).
 - (2) Two Meter Screen Line (ID# 8) with a maximum capacity of 15 tons of met coke per hour and consisting of the following equipment:
 - (A) one (1) feed hopper (ID# 8A),
 - (B) one (1) bucket elevator (ID# 8B),
 - (C) one (1) belt conveyor (ID# 8C),
 - (D) one (1) enclosed two meter screen (ID# 8D), and

(E) various storage bins (ID# 8E).

The two meter screen is attached to filter boxes (ID# DSS-2) and exhausts through a stack (ID# DSS-2). *(Note: The two meter screen line is now an insignificant activity based on revised emission calculations.)*

(b) Screening Building

(1) One Meter Screen Line (ID# 10) with a maximum capacity of 10 tons of pet coke per hour and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 10A),
- (B) one (1) vibrating pan feeder (ID# 10B),
- (C) one (1) bucket elevator (ID# 10C),
- (D) one (1) conveyor (ID# 10D),
- (E) one (1) enclosed one meter screen (ID# 10E),
- (F) one (1) inside storage bin (ID# 10F), and
- (G) one (1) inside storage area (ID# 10G).

There are no additional air pollution control devices attached to any of these equipment.

(c) Warehouse/Bagging Building

(1) Bagging Line (ID# 14) with a maximum capacity of 50 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 14A),
- (B) one (1) conveyor (ID# 14B),
- (C) one (1) discharge tank (ID# 14C), and
- (D) one (1) bagging machine (ID# 14D).

The bagging machine is attached to a dust collector (ID# WBBSS-1) and exhausts through a stack (ID# WBBSS-1). *(Note: The bagging line is now an insignificant activity based on revised emission calculations.)*

(2) Supersacker Line (ID# 15) with a maximum capacity of 13 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 15A),
- (B) one (1) vibrating pan feeder (ID# 15B),
- (C) one (1) bucket elevator (ID# 15C),
- (D) one (1) discharge tank (ID# 15D), and
- (E) one (1) supersacker machine (ID# 15E).

The supersacker machine is attached to a dust collector (ID# WBBSS-1) and exhausts through a stack (ID# WBBSS-1). *(Note: The supersacker line is now an insignificant activity based on revised emission calculations.)*

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted facilities/units:

(a) Outdoors

- (1) 6' x 16' Scalping Screen Line (ID# 2) with a maximum capacity of 50 tons of met coke or sand per hour and consisting of the following equipment:

- (A) one (1) conveyor (ID# 2A), and
(B) one (1) 6' x 16' scalping screen (ID# 2B).

There are no additional air pollution control devices attached to any of these equipment.

(b) Raw Material Storage Building

- (1) Bulk Truck Unloading (ID# 4) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.

(c) Dryer Building

- (1) Crushing Line (ID# 7) with a maximum capacity of 50 tons of met coke or pet coke per hour and consisting of the following equipment:

- (C) one (1) feed hopper (ID# 7A),
(D) one (1) belt conveyor (ID# 7B),
(E) one (1) enclosed crusher (ID# 7C), and
(F) one (1) discharge storage bin (ID# 7D).

There are no additional air pollution control devices attached to any of these equipment.

(d) Screening Building

- (1) Bulk Truck Unloading (ID# 9) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.

(e) Mix/Storage Building

- (1) Bulk Truck Unloading (ID# 11) with a maximum capacity of 250 tons of pet coke per hour. This activity is not attached to any air pollution control devices.

- (2) Bulk Rail Unloading (ID# 13) with a maximum capacity of 22.5 tons of met coke or pet coke per hour and consisting of the following equipment:

- (A) one (1) underground feed hopper (ID# 13A),
(B) one (1) fixed conveyor (ID# 13B), and
(C) one (1) movable conveyor (ID# 13C).

There are no additional air pollution control devices attached to any of these equipment.

(f) Warehouse/Bagging Building

- (1) Bulk Loadout Line (ID# 16) with a maximum capacity of 50 tons of met coke, pet coke, or met coke-pet coke blend and consisting of the following equipment:

- (A) one (1) feed hopper (ID# 16A),
- (B) one (1) vibrating pan feeder (ID# 16B),
- (C) one (1) belt conveyor (ID# 16C), and
- (D) one (1) loading hopper with spout (ID# 16D).

The loading hopper with spout is attached to a dust collector (ID# WBBSS-2) and exhausts through a stack (ID# WBBSS-2).

Emission Units and Pollution Control Equipment Under Enhanced New Source Review (ENSR)

There are no new facilities to be reviewed under the ENSR process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) **Outdoors**

- (1) Outside storage piles (ID# 1). Emissions from storage piles are considered fugitive emissions.
- (2) Crushing Line (ID# 3) with a maximum capacity of 36 tons of met coke per hour and consisting of the following equipment:
 - (A) one (1) vibrating pan feeder (ID# 3A),
 - (B) two (2) conveyors (ID#s 3B and 3C),
 - (C) one (1) enclosed crusher (ID# 3D), and
 - (D) one (1) holding bin (ID# 3E).

There are no additional air pollution control devices attached to any of these equipment. This crushing line, although considered an insignificant activity, has applicable requirements;

(b) **Dryer Building**

- (1) Bulk Truck Unloading (ID# 5) with a maximum capacity of 250 tons of met coke per hour. This activity, although considered insignificant, has applicable requirements;

(c) **Mix/Storage Building**

- (1) Blending Line (ID# 12) with a maximum capacity of 17 tons of met coke-pet coke blend per hour and consisting of the following equipment:
 - (A) various met coke inside storage bins (ID# 12A),
 - (B) one (1) pet coke inside storage pile (ID# 12B), and
 - (C) one (1) blending area (ID# 12C).

There are no additional air pollution control devices attached to any of these equipment. This blending line, although considered an insignificant activity, has applicable requirements;

- (d) Sand Mix Building
 - (1) Sand Mix Line (ID# 17) with a maximum capacity of 20 tons of sand per hour and consisting of the following equipment:
 - (A) one (1) intermediate outside storage area (ID# 17A),
 - (B) one (1) wet yellow sand inside storage bin (ID# 17B),
 - (C) one (1) wet torpedo sand inside storage bin (ID# 17C),
 - (D) one (1) bond clay inside storage bin (ID# 17D),
 - (E) one (1) pitch inside storage bin (ID# 17E),
 - (F) one (1) feed hopper (ID# 17F),
 - (G) one (1) conveyor (ID# 17G),
 - (H) one (1) self-contained muller (ID# 17H),
 - (I) one (1) belt conveyor with pulley mixer (ID# 17I), and
 - (J) one (1) inside runner-sand mix storage bin (ID# 17J).

There are no additional air pollution control devices attached to any of these equipment. This sand mix line, although considered an insignificant activity, has applicable requirements;

- (e) Six (6) natural gas-fired space heaters with heat input less than ten (10) million British Thermal Units per hour (MMBTU/hr);
- (f) Combustion source flame safety purging on startup;
- (g) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (h) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (i) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (j) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. This activity, although considered insignificant, has applicable requirements;
- (k) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kilopascals (kPa); 15 millimeters of mercury (mm Hg); or 0.3 pounds per square inch (psi) measured at 38 degrees centigrade (°C) (100 °F) or
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F);

the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months. This activity, although considered insignificant, has applicable requirements;

- (l) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment. This activity, although considered insignificant, has applicable requirements;

- (m) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (n) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment; and
- (o) Travels on paved and unpaved roadways. Emissions from travel on paved and unpaved roadways are considered fugitive emissions.

Existing Approvals

This source has been operating under the following approvals:

- (a) Exemption Letter, issued on June 27, 1991;
- (b) Operating Permit ID No. 45-03-94-0607, issued on June 18, 1990;
- (c) Operating Permit ID No. 45-03-94-0608, issued on June 18, 1990;
- (d) Operating Permit ID No. 45-03-94-0609, issued on June 18, 1990;

Enforcement Issue

- (a) IDEM is aware that the equipment listed as unpermitted have been constructed and operated prior to receipt of the proper permit.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit will also satisfy the requirements of the construction permit rules.

There are no Enforcement actions pending.

Recommendation

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

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

A construction permit application was initially received on July 10, 1997 for the purpose of resolving the permitting status of Carb-Rite Company's Schneider, Indiana plant. After preliminary calculation of the source's potential-to-emit (PTE), it has been determined that the source is subject to the Part 70 Permit Program (326 IAC 2-7). But, the source can take federally enforceable limitations under the FESOP Program (326 IAC 2-8) and avoid the Part 70 permit requirements. A Notice of Deficiency, dated July 24, 1997 was sent to the source explaining its permit status and requesting that a complete FESOP application be submitted.

On September 30, 1997, an administratively complete FESOP application was received. Additional information was received on October 17, 1997, November 3, 1997, and November 14, 1997.

Emissions Calculations

See Appendices A1 through A10 : Emissions Calculations for detailed calculations (32 pages).

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as “emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility.”

Pollutant	Potential Emissions (tons/year)
PM	572
PM-10	275
SO ₂	83
VOC	0.46
CO	5.9
NO _x	23

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

See Appendices A1 through A10 : Emissions Calculations for detailed calculations (32 pages).

HAP	Potential Emissions (tons/year)
single HAP	0.0
any combination of HAPs	0.0

- (a) The potential emissions (as defined in the Indiana Rule) of PM-10 are greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Part 70 emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.
- (c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter emissions are not counted toward determination of PSD, Emission Offset, and Part 70 applicability.

Limited Potential To Emit

- (a) The source has accepted a federally enforceable limit on potential to emit PM-10 of 99 tons per year, consisting of:
 - (1) 85 tons per year for the significant activities; and
 - (2) 14 tons per year for the insignificant activities.

Therefore 326 IAC 2-7 (Part 70 Rules) does not apply.

- (b) The source has also accepted a federally enforceable limit on potential to emit SO₂ of 24 tons per year for the rotary dryer (ID# 6E). This emission limit will be achieved by limiting the fuel oil usage of the rotary dryer to 676 kilogallons per 12 consecutive month period. This limit renders 326 IAC 1-7 (Stack Height) not applicable to the rotary dryer line (ID# 6).
- (c) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

Process/ facility	Emissions (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Outdoor 6' x 16' Screening Line (ID# 2)	17.9	9.1	0.0	0.0	0.0	0.0	0.0
Raw Material Storage Building Bulk Truck Unloading (ID# 4) *	26.5	12.5	0.0	0.0	0.0	0.0	0.0
Dryer Building Rotary Dryer Line (ID# 6)	83.2 (limited after ctrls)	20.4 (limited after ctrls)	24.0 (limited)	0.1 (limited)	1.7 (limited)	6.8 (limited)	0.0 (limited)
Dryer Building Crushing Line (ID# 7)	25.5	11.3	0.0	0.0	0.0	0.0	0.0
Screening Building Bulk Truck Unloading (ID# 9) *	26.5	12.5	0.0	0.0	0.0	0.0	0.0
Screening Building One Meter Screen Line (ID# 10)	13.5	6.6	0.0	0.0	0.0	0.0	0.0
Mix/Storage Building Bulk Truck Unloading (ID# 11) *	26.5	12.5	0.0	0.0	0.0	0.0	0.0
Mix/Storage Building Bulk Rail Unloading (ID# 13)	21.6	10.2	0.0	0.0	0.0	0.0	0.0
Warehouse/ Bagging Building Bulk Loadout Line (ID# 16)	31.7	15.0	0.0	0.0	0.0	0.0	0.0
Insignificant Activities	29.1	13.9	neg	neg	neg	neg	0.0

Process/ facility	Emissions (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Total PTE	249	99	24	0.1	1.7	6.8	0.0
Thresholds	250	100	100	25	100	100	10 single/ 25 total

* These bulk truck unloading operations are performed one at a time, therefore emissions from these operations are not additive.

County Attainment Status

The source is located in the area of Lake County that meets that national ambient air quality standards (NAAQS) for criteria pollutants, except for ozone.

Pollutant	Status
TSP	attainment
PM-10	attainment
SO ₂	attainment
NO ₂	unclassifiable/attainment
Ozone	nonattainment
CO	attainment
Lead	unclassifiable/attainment

Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) applicable to any facilities in this source. The facilities in this source are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.670 through 60.675, Subpart OOO), since the materials that this source processes (i.e., metallurgical coke and petroleum coke) do not meet the definition of a “nonmetallic mineral” under this subpart.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to any facilities in this source. The cold cleaner (ID# CCD1) in this source is not subject to the requirements of 40 CFR 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning) since the cold cleaner does not utilize halogenated HAP solvents in a total concentration greater than 5 percent (5%) by weight.

State Rule Applicability - Entire Source

- (a) 326 IAC 2-6 (Emission Reporting)
 This source is subject to 326 IAC 2-6 (Emission Reporting), because it emits more than ten (10) tons per year of NO_x and is located in Lake County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

- (b) 326 IAC 4 (Open Burning)
 This rule requires that 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 source is currently in compliance with this rule.

- (c) 326 IAC 4-2 (Incineration) and 326 IAC 9-1-2(3)
 This rule requires that the Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2(3). The source is currently in compliance with this rule.

- (d) 326 IAC 5-1 (Visible Emissions Limitations)
 Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:
 - (1) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
 - (2) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

- (e) 326 IAC 6-4 (Fugitive Dust Emissions)
 This rule requires the source not to generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

- (f) 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)
 This rule requires that opacity of fugitive particulate emissions to not exceed ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

State Rule Applicability - Individual Facilities

- (a) 326 IAC 6-3-2 (PM Emission Limitations for Process Operations)
 - (1) This rule requires that particulate matter (PM) emissions from the coke processing operations to not exceed the following limitations:

Process	326 IAC 6-3 limit (lbs/hr)
<i>Outdoors:</i>	
6' x 16' Screening Line (ID# 2)	44.6
Crushing Line (ID# 3)	41.6
<i>Raw Material Storage Building:</i>	
Bulk Truck Unloading (ID# 4)	61.0
<i>Dryer Building:</i>	
Bulk Truck Unloading (ID# 5)	61.0
Rotary Dryer Line (ID# 6)	19.0

Process	326 IAC 6-3 limit (lbs/hr)
Crushing Line (ID# 7)	44.6
Two Meter Screen Line (ID# 8)	25.2
<i>Screening Building:</i>	
Bulk Truck Unloading (ID# 9)	61.0
One Meter Screen Line(ID# 10)	19.2
<i>Mix/Storage Building:</i>	
Bulk Truck Unloading (ID# 11)	61.0
Blending Line (ID# 12)	27.4
Bulk Rail Unloading (ID# 13)	33.0
<i>Warehouse/Bagging Building:</i>	
Bagging Line (ID# 14)	25.2
Supersacker Line (ID# 15)	22.9
Bulk Loadout Line	44.6
<i>Sand Mix Building:</i>	
Sand Mix Line	30.5

- (2) This rule also requires the particulate matter (PM) emissions from the following equipment related to manufacturing activities not resulting in emission HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment (insignificant activity) be limited by the following:

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

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

or

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

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

- (b) 326 IAC 2-2 (Prevention of Significant Deterioration)
 The PM emissions from the coke processing operations shall not exceed the following limitations to avoid the PSD Rule being applicable:

Process	326 IAC 2-2 limit (lbs/hr)
<i>Outdoors:</i>	
6' x 16' Screening Line (ID# 2)	4.1
Crushing Line (ID# 3)	0.8
<i>Raw Material Storage Building:</i>	
Bulk Truck Unloading (ID# 4)	6.0
<i>Dryer Building:</i>	
Bulk Truck Unloading (ID# 5)	0.0
Rotary Dryer Line (ID# 6)	24.5
Crushing Line (ID# 7)	5.8
Two Meter Screen Line (ID# 8)	1.3
<i>Screening Building:</i>	
Bulk Truck Unloading (ID# 9)	6.0
One Meter Screen Line (ID# 10)	3.1
<i>Mix/Storage Building:</i>	
Bulk Truck Unloading (ID# 11)	6.0
Blending Line (ID# 12)	0.8
Bulk Rail Unloading (ID# 13)	4.9
<i>Warehouse/Bagging Building:</i>	
Bagging Line (ID# 14)	1.6
Supersacker Line (ID# 15)	1.9
Bulk Loadout Line	7.3
<i>Sand Mix Building:</i>	
Sand Mix Line	0.0

Compliance with these limits shall also satisfy the requirements of 326 IAC 6-3-2 (PM Limitations for Process Operations).

Based on the emission calculations (see Appendix A1 through A7), the potential PM emissions from the various processes are less than above limits, therefore, the processes complies with 326 IAC 6-3-2 and the PSD Rule is not applicable.

- (c) 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)
 This rule does not apply to the rotary dryer (ID# 6E) since the potential to emit SO₂ for this facility is limited to 24 tons per year. This emission limit will be achieved by limiting the fuel oil usage of the rotary dryer to 676 kilogallons per 12 consecutive month period.

(d) 326 IAC 8-3-1 (Organic Solvent Degreasing Operations)

This rule requires the owner or operator of any cold cleaner degreasing facility that is located anywhere in the state, which does not have a remote solvent reservoir, and built after July 1, 1990 to ensure that the requirements of 326 IAC 8-3-5 are met.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

The compliance monitoring requirements applicable to this source are as follows:

The rotary dryer line (ID# 6) has applicable compliance monitoring conditions as specified below:

(a) Visible Emissions Notations

- (1) Daily visible emission notations of the rotary dryer line stack exhaust shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (2) 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.
- (3) 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.
- (4) 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.
- (5) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

(b) Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the rotary dryer line, at least once per day when the rotary dryer line is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 4.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

(c) Broken Bag or Failure Detection

In the event that bag failure has been observed:

- (1) The affected compartments will be shut down immediately until the failed units have been repaired or replaced.
- (2) Based upon the findings of the inspection, any additional response steps will be devised within eight (8) hours of discovery and will include a timetable for completion.

These compliance monitoring conditions are necessary because the baghouse for the rotary dryer line must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-8 (FESOP).

The compliance determination requirements applicable to this source are as follows:

(a) Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed five-tenths percent (0.5%) by weight by:

- (1) Providing vendor analysis of fuel delivered, if accompanied by a certification;
- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

(b) Record Keeping of No.2 Distillate Fuel Oil Parameters

That the Permittee shall maintain monthly records at the stationary source of the following values:

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period;

- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and
- (4) Fuel supplier certifications. The fuel supplier certification shall contain, as a minimum, the following:
 - (A) The name of the fuel supplier; and
 - (B) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

These compliance determination conditions are necessary to ensure that the rotary dryer (ID# 6E) line does not exceed 24 tons per year of SO₂.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

None of these listed air toxics will be emitted from this source.

Conclusion

The operation of this metallurgical coke and petroleum coke processing plant will be subject to the conditions of the attached proposed **FESOP No. F089-8579-00093**.

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

Source Name: Carb-Rite Company
Source Location: 23810 Highland Street, Schneider, Indiana 46367
County: Lake County
SIC Code: 2999 and 3999
Operation Permit No.: F089-8579-00093
Permit Reviewer: Marco A. Salenda

On August 22, 1998, the Office of Air Management (OAM) had a notice published in the Gary Post Tribune, Gary, Indiana and Hammond Times, Munster, Indiana stating that Carb-Rite Company had applied for a Federally Enforceable State Operating Permit (FESOP) to operate a stationary metallurgical coke and petroleum coke processing plant with control. The notice also stated that OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

There were no comments received from the public or the source regarding the proposed FESOP. However upon further review, the IDEM has decided to make the following changes to the proposed FESOP:

~~old language~~ is struck out
new language is bolded for emphasis

- (a) Under section A.1 - General Information, the county status is revised as follows to clarify the attainment status of the area of Lake County where the source is located:
- County Status: ~~Attainment area, but located within a nonattainment county~~
Located in area of Lake County that is attainment for all criteria pollutants except for ozone
- (b) In reference to condition D.3.10 - Record Keeping requirements, item (b)(8) is deleted as follows since there are no vents to redirect on the rotary dryer line exhaust:
- (b) To document compliance with Condition D.3.1 and D.3.2, the Permittee shall maintain the following:
- * * *
- ~~(8) Documentation of the dates vents are redirected.~~
- (c) In reference to condition D.8.1 - Volatile Organic Compounds (VOC), item (a)(5)(B) is revised as follows for clarification:
- (a) (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
- * * *

(B) A water cover when solvent ~~is~~ used is insoluble in, and heavier than, water.

Appendix A3: Emission Calculations

Dryer Building

Company Name: Carb - Rite Company
Plant Location: 23810 Highland Street, Schneider, Indiana 46376
County: Lake County
FESOP No.: F 089-8579-00093
Permit Reviewer: Marco A. Salenda

I. Facility Description

A. Bulk Truck Unloading (ID# 5) with a maximum capacity of 250 tons of met coke per hour

Emission controls: none

B. Rotary Dryer Line (ID# 6) with a maximum capacity of 30 tons of met coke and/or pet coke per hour

1. One (1) dryer loading bin
2. One (1) feed hopper
3. One (1) vibrating pan feeder
4. One (1) conveyor
5. One (1) natural gas-fired rotary dryer, with a maximum heat input rate of 37.4 million Btu/hr and a maximum drying rate of 30 tons per hour
6. One (1) cooling screw
7. One (1) belt conveyor
8. One (1) screen
9. One (1) dryer discharge bin
10. Various product storage bins

Emission controls: cyclone and baghouse system (ID# DSS-1) for screen
cyclone and baghouse system (ID# DSS-1) for dryer

C. Crushing Line (ID# 7) with a maximum capacity of 50 tons of met coke or pet coke per hour

1. One (1) feed hopper
2. One (1) belt conveyor
3. One (1) crusher
4. One (1) discharge storage bin

Emission controls: enclosure for crusher

D. Two Meter Screen Line (ID# 8) with a maximum capacity of 15 tons of met coke per hour

1. One (1) feed hopper
2. One (1) bucket elevator
3. One (1) belt conveyor
4. One (1) two meter screen
5. Various storage bins

Emission controls: enclosure, filter boxes (ID# DSS-2) for 2 meter screen

II. Potential Emissions

Process: Drying Line - Met Coke and Blends of Met and Pet Coke	Rate (tons mat'l/hr)	Pollutant	Ef (lb/ton mat'l)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Enclosure efficiency	Hood capture efficiency	Cyc/Bh control efficiency	Comments
Material Handling 1 (3 transfer pts)	30.0	PM	0.0001	0.04	0.04	none	NA	NA	0.0%	AP-42 equation
		PM-10	0.0000	0.02	0.02	none	NA	NA	0.0%	AP-42 equation
Material Handling 2 (1 transfer pt)	30.0	PM	0.0001	0.01	0.01	none	NA	NA	0.0%	AP-42 equation
		PM-10	0.0000	0.01	0.01	none	NA	NA	0.0%	AP-42 equation
Material Handling 3 (1 transfer pt)	30.0	PM	0.0001	0.01	0.01	none	NA	NA	0.0%	AP-42 equation
		PM-10	0.0000	0.01	0.01	none	NA	NA	0.0%	AP-42 equation
* Drying (SCC# 3-05-002-05)	30.0	PM	3.1	406.29	3.98	cyc/bh system	NA	98.0%	99.0%	mass balance
		PM-10	1.5	197.10	1.93	cyc/bh system	NA	98.0%	99.0%	mass balance
* Material Handling 4 (3 transfer pts)	30.0	PM	---	0.00	0.00	cyc/bh system	NA	98.0%	99.0%	mass balance
		PM-10	---	0.00	0.00	cyc/bh system	NA	98.0%	99.0%	mass balance
4' x 8' Screen, open (SCC# 3-03-003-12)	30.0	PM	---	0.00	0.00	cyc/bh system	NA	98.0%	99.0%	mass balance
		PM-10	---	0.00	0.00	cyc/bh system	NA	98.0%	99.0%	mass balance
* Natural gas/no. 2 fuel oil combustion (SCC# 1-02-006-02)	see page 5	PM	---	0.00	0.00	cyc/bh system	NA	98.0%	99.0%	mass balance
		PM-10	---	0.00	0.00	cyc/bh system	NA	98.0%	99.0%	mass balance
		SO2	---	83.08	83.08	none	NA	98.0%	0.0%	AP-42, Ef (lb/MMcf)
		NOx	---	23.40	23.40	none	NA	98.0%	0.0%	AP-42, Ef (lb/MMcf)
		VOC	---	0.46	0.46	none	NA	98.0%	0.0%	AP-42, Ef (lb/MMcf)
		CO	---	5.85	5.85	none	NA	98.0%	0.0%	AP-42, Ef (lb/MMcf)
Material Handling 5 (2 transfer pts)	18.2	PM	0.0014	0.23	0.23	none	NA	NA	0.0%	AP-42 equation
		PM-10	0.0007	0.11	0.11	none	NA	NA	0.0%	AP-42 equation
Material Handling 6 (1 transfer pt)	9.8	PM	0.0014	0.25	0.25	none	NA	NA	0.0%	AP-42 equation
		PM-10	0.0007	0.12	0.12	none	NA	NA	0.0%	AP-42 equation
SUBTOTAL		PM		406.82	4.51					
		PM-10		197.35	2.18					
		SO2		83.08	83.08					
		NOx		23.40	23.40					
		VOC		0.46	0.46					
		CO		5.85	5.85					

Process: Two Meter Screen Line - Met Coke	Rate (tons mat'l/hr)	Pollutant	Ef (lb/ton mat'l)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Enclosure efficiency	Hood capture efficiency	Filter box control efficiency	Comments
Material Handling 7 (2 transfer pts)	15.0	PM	0.0014	0.19	0.19	none	NA	NA	NA	AP-42 equation
		PM-10	0.0007	0.09	0.09	none	NA	NA	NA	AP-42 equation
Two Meter Screen, enclosed (SCC# 3-03-003-12)	15.0	PM	0.08	5.26	0.06	encl., filter boxes	95.0%	80.0%	70.0%	AIRS (Mar 1990)
		PM-10	0.04	2.63	0.03	encl., filter boxes	95.0%	80.0%	70.0%	AIRS (Mar 1990)
Material Handling 8 (1 transfer pt)	9.0	PM	0.0014	0.06	0.06	none	NA	NA	NA	AP-42 equation
		PM-10	0.0007	0.03	0.03	none	NA	NA	NA	AP-42 equation
Material Handling 9 (2 transfer pts)	6.0	PM	0.0014	0.08	0.08	none	NA	NA	NA	AP-42 equation
		PM-10	0.0007	0.04	0.04	none	NA	NA	NA	AP-42 equation
SUBTOTAL		PM		5.58	0.38					
		PM-10		2.78	0.18					

Process: Crushing Line	Rate (tons mat'l/hr)	Pollutant	Ef (lb/ton mat'l)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Enclosure efficiency	Hood capture efficiency	Comments
Met Coke									
Material Handling 10 (3 transfer pts)	50.0	PM	0.0014	0.95	0.95	none	NA	NA	AP-42 equation
		PM-10	0.0007	0.45	0.45	none	NA	NA	AP-42 equation
Inside Crushing, enclosed (SCC# 3-05-010-10)	50.0	PM	0.02	4.38	0.22	enclosure	95.0%	NA	AP-42 equation
		PM-10	0.01	1.31	0.07	enclosure	95.0%	NA	AP-42 equation
Material Handling 11 (1 transfer pt)	50.0	PM	0.0014	0.32	0.32	none	NA	NA	AP-42 equation
		PM-10	0.0007	0.15	0.15	none	NA	NA	AP-42 equation
SUBTOTAL		PM		5.64	1.48				
		PM-10		1.91	0.66				
** Pet Coke									
Material Handling 12 (4 transfer pts)	50.0	PM	0.02	21.16	21.16	none	NA	NA	AP-42 equation
		PM-10	0.01	10.01	10.01	none	NA	NA	AP-42 equation
Inside Crushing, enclosed (SCC# 3-05-010-10)	50.0	PM	0.02	4.38	0.22	enclosure	95.0%	NA	AP-42 equation
		PM-10	0.01	1.31	0.07	enclosure	95.0%	NA	AP-42 equation
SUBTOTAL		PM		25.54	21.38				
		PM-10		11.32	10.07				

Process: Bulk Truck Unloading	Rate (tons mat'l/hr)	Pollutant	Ef (lb/ton mat'l)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Enclosure efficiency	Hood capture efficiency	Comments
Met Coke									
Material Handling 13 (1 transfer pt)	250.0	PM	0.0001	0.11	0.11	none	NA	NA	AP-42 equation
		PM-10	0.0000	0.05	0.05	none	NA	NA	AP-42 equation
SUBTOTAL		PM		0.11	0.11				
		PM-10		0.05	0.05				
TOTAL		PM		438.05	26.39				
		PM-10		211.51	12.49				
		SO2		83.08	83.08				
		NOx		23.40	23.40				
		VOC		0.46	0.46				
		CO		5.85	5.85				

Note: ** stands for worst case scenario

III. Allowable Emissions

A. The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates less than or equal to 30 tons per hour:

$$\text{limit (lb/hr)} = 4.1 \times (P^{0.67})$$

Process:	Rate, P (tons mat'l/hr)	Allowable PM Emissions (lb/hr)	(tons/yr)	Potential Emissions after ctrls (lb/hr)	(tons/yr)	Status
Drying Line (stack DSS-1)	30.0	40.04	175.36	4.51	19.76	will comply
Two Meter Screen Line	15.0	25.16	110.21	0.38	1.68	will comply
SUBTOTAL		65.20	285.57	4.90	21.45	

B. The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

$$\text{limit (lb/hr)} = 55 \times (P^{0.11}) - 40$$

Process:	Rate, P (tons mat'l/hr)	Allowable PM Emissions (lb/hr)	(tons/yr)	Potential Emissions after ctrls (lb/hr)	(tons/yr)	Status
** Crushing Line	50.0	44.58	195.24	0.34	1.48	will comply
Bulk Truck Unloading	250.0	60.96	266.99	0.03	0.11	will comply
SUBTOTAL		105.53	462.24	0.36	1.59	
TOTAL		170.73	747.81	5.26	23.04	

Note: ** stands for worst case scenario

C. The following calculations determine the maximum sulfur content of distillate fuel oil allowable by 326 IAC 7:

$$\begin{aligned} \text{limit: } & 0.5 \text{ lb SO}_2/\text{MMBtu} & 18.7 \text{ lb/hr} & 81.9 \text{ tons/yr} \\ & 0.5 \text{ lb/MMBtu} \times & 140,000 \text{ Btu/gal} = & 70 \text{ lb/1000gal} \\ & 70 \text{ lb/1000gal} / & 144 \text{ lb/1000 gal} = & 0.49 \end{aligned}$$

Sulfur content must be less than or equal to 0.49% to comply with 326 IAC 7 and to limit SO2 emissions to 99 tons per year or less.

IV. Methodology

* * material handling 1, 2, 3, and 13* *

The following calculations determine the amount of emissions created by truck loading and unloading of metallurgical coke and continuous dropping operations, based on 8760 hours of use and AP-42 (Jan 1995), Ch 13.2.4.

$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$	$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$
= 0.0001 lb PM/ton	= 0.0000 lb PM-10/ton
where k = 0.74 (particle size multiplier)	where k = 0.35 (particle size multiplier)
U = 2.5 mile/hr mean wind speed	U = 2.5 mile/hr mean wind speed
M = 10 % material moisture content	M = 10 % material moisture content

**** drying, material handling 4, and natural gas combustion****

The combined particulate (PM and PM-10) emission factors for these operations were determined by the source via mass balance.

**** material handling 5, 6, 7, 8, 9, 10, and 11****

The following calculations determine the amount of emissions created by truck loading and unloading of metallurgical coke and continuous dropping operations, based on 8760 hours of use and AP-42 (Jan 1995), Ch 13.2.4.

$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$ $= 0.0014 \text{ lb PM/ton}$ <p>where k = 0.74 (particle size multiplier)</p> <p>U = 2.5 mile/hr mean wind speed</p> <p>M = 1.5 % material moisture content</p>	$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$ $= 0.0007 \text{ lb PM-10/ton}$ <p>where k = 0.35 (particle size multiplier)</p> <p>U = 2.5 mile/hr mean wind speed</p> <p>M = 1.5 % material moisture content</p>
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**** material handling 12****

The following calculations determine the amount of emissions created by truck loading and unloading of petroleum coke and continuous dropping operations, based on 8760 hours of use and AP-42 (Jan 1995), Ch 13.2.4.

$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$ $= 0.0242 \text{ lb PM/ton}$ <p>where k = 0.74 (particle size multiplier)</p> <p>U = 2.5 mile/hr mean wind speed</p> <p>M = 0.2 % material moisture content</p>	$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$ $= 0.0114 \text{ lb PM-10/ton}$ <p>where k = 0.35 (particle size multiplier)</p> <p>U = 2.5 mile/hr mean wind speed</p> <p>M = 0.2 % material moisture content</p>
--	---

**** fuel combustion****

The following calculations determine the amount of emissions created from fuel combustion on units with heat input capacities within 10 - 100 MMBtu/hr:

Total heat input (MMBtu/hr) =	37.4	S % sulfur content of fuel oil =	0.50
Potential Throughput of natural gas (MMcf/yr) =	327.6	Potential throughput of fuel oil (kgal/yr) =	2340.2

Pollutant	Natural Gas			Distillate (No. 2) Fuel Oil			Worst Case	
	Ef3 (lb/MMcf)	Potential Emissions lbs/hr tons/yr		Ef2 (lb/kgal)	Potential Emissions lbs/hr tons/yr		Potential Emissions lbs/hr tons/yr	
PM	13.7	0.5	2.2	2.0	0.5	2.3	0.5	2.3
PM-10	13.7	0.5	2.2	1.0	0.3	1.2	0.5	2.2
SO2	0.6	0.0	0.1	142.0 S	19.0	83.1	19.0	83.1
NOx	140.0	5.2	22.9	20.0	5.3	23.4	5.3	23.4
VOC	2.8	0.1	0.5	0.2	0.1	0.2	0.1	0.5
CO	35.0	1.3	5.7	5.0	1.3	5.9	1.3	5.9

1) Natural gas:

1 cubic feet of natural gas has a heating value of 1,000 Btu
 Potential Throughput (MMcf) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMcf/1,000 MMBtu
 Emission Factors are from AP 42 (1/95 version), Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02/03
 Emission (tons/yr) = Throughput (MMcf/yr) x Emission Factor (lb/MMcf)/2,000 lb/ton

2) No.2 distillate fuel oil:

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu
 Emission Factors are from AP 42 (1/95 version), Tables 1.3-2 and 1.3-4 (SCC 1-02-005-01/02/03)
 Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Since the potential emissions of SO2 from the rotary dryer line is greater than 25 tons per year, 326 IAC 1-7 (Stack Height) applies. This rule requires that the rotary dryer line stack (ID# DSS-1) be constructed using "good engineering practices (GEP). Since stack DSS-1 does not currently meet the GEP stack height requirement, the source has agreed to limit the SO2 emissions from the rotary dryer line as follows:

S % sulfur content of fuel oil = 0.50
 Limited throughput of fuel oil (kgal/yr) = **676.1**

Pollutant	Distillate (No. 2) Fuel Oil		
	Ef2	Potential Emissions	
	(lb/kgal)	lbs/hr	tons/yr
PM	2.0	0.2	0.7
PM-10	1.0	0.1	0.3
SO2	142.0 S	5.5	24.0
NOx	20.0	1.5	6.8
VOC	0.2	0.0	0.1
CO	5.0	0.4	1.7