INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: June 26, 2008

RE: Griffin Industries, Inc. / 055-25477-00008

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mr. Michael Schmidt
Griffin Industries, Inc.
4221 Alexandria Pike
Cold Spring, Kentucky 41076

June 26, 2008

Re: 055-25477-00008
Significant Source Modification to a Part 70 Source:
Part 70 Operating Permit Renewal No. 055-20227-00008

Dear Mr. Schmidt:

Griffin Industries was issued Part 70 permit No. 055-6360-00008 on October 4, 2000. An application to modify the Part 70 source was received on October 30, 2007, for the following activities:

(a) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

(b) Removal of the existing one (1) traveling grate, coal-fired boiler, identified as 02, with a heat input capacity of 50 MMBtu/hr.

Pursuant to 326 IAC 2-7-10.5, this source modification is hereby approved for construction at the source.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless

modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Since the source has a pending renewal to the existing Part 70 Permit, these changes will be incorporated into the Part 70 Operating Permit Renewal instead of issuing a Significant Permit Modification to the source existing Part 70 Permit No. T055-6360-00008.

Operation is not approved until the Part 70 Operating Permit Renewal has been issued.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027 and ask for Aida De Guzman or extension 3-4972, or dial (317) 233-4972.

Sincerely/Original Signed By:

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

Attachments
APD

cc: File –Greene County
Greene County Health Department
IDEM Air Compliance Section Inspector
Compliance Data Section
Administrative and Development

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SIGNIFICANT SOURCE MODIFICATION TO A PART 70 SOURCE
OFFICE OF AIR QUALITY

Griffin Industries
CR 400 West, Route 1 Box 112
Newberry, Indiana 47449

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

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

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

Significant Source Modification No.: 055-25477-00008	
Issued by/Original Signed By: Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: June 26, 2008

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary animal and agricultural byproducts rendering operation.

Source Address:	Route 1 Box 112, Newberry, IN 47449
Mailing Address:	Route 1 Box 112, Newberry, IN 47449
Phone Number:	859-781-2010
SIC Code:	2077
County Location:	Greene
County Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules Major Source, Section 112 of the Clean Air Act

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

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

(a) One (1) fluidized, coal-fired boiler, identified as 01, constructed in 1981, with a heat input capacity of 50 million Btu per hour, using natural gas as a backup fuel, dry limestone injection for sulfur dioxide (SO_2) control, a cyclone centrifugal separator and baghouse for particulate matter control, and exhausting to stack A;

(b) One (1) natural gas-fired dryer, identified as 04, constructed in 1994, with a heat input capacity of 20 million Btu per hour, using No. 2 fuel oil as a backup fuel, a cyclone centrifugal separator and a wet scrubber for particulate matter control, and exhausting to stack D;

(c) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

(d) Material storage and handling facilities including:

(1) seven (7) enclosed tanks totalling 420 tons of capacity, used for storing tallow/grease, with enclosed piping for material handling,

(2) three (3) 250 ton capacity enclosed silos, used for storing meat meal, feather meal, and poultry meal, with three (3) screw conveyors for material handling, and

(3) one (1) 30 ton capacity enclosed silo, used for storing blood meal, with one (1) screw conveyor for material handling.

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

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

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6:

(1) Three (3) cold cleaners, each with 22 gallon reservoirs.

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

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T055-20227-00008, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

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

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

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

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

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

and

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

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

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

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

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

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

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

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

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

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

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

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or

possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

(a) All terms and conditions of permits established prior to 123-50001-00032 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30)

days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

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

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

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

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

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

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

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

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

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

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

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

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

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

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

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

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

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

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

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

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

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

(a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 ora permit modification under326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

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

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

(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).

required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

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

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

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

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

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

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

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

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

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

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

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

Pursuant to 326 IAC2-6-3(b)(3), that starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management

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

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

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

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

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

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

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) One (1) fluidized, coal-fired boiler, identified as 01, constructed in 1981, with a heat input capacity of 50 million Btu per hour, using natural gas as a backup fuel, dry limestone injection for sulfur dioxide (SO_2) control, a cyclone centrifugal separator and baghouse for particulate matter control, and exhausting to stack A;

(b) One (1) natural gas-fired dryer, identified as 04, constructed in 1994, with a heat input capacity of 20 million Btu per hour, using No. 2 fuel oil as a backup fuel, a cyclone centrifugal separator and a wet scrubber for particulate matter control, and exhausting to stack D;

(c) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

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

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

D.1.1 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.2 (SO_2 Emissions Limitations) the SO_2 emissions when combusting coal from boiler 01 shall not exceed six (6.0) pounds per MMBtu heat input. The SO_2 emissions when combusting No. 2 fuel oil from dryer 04, boiler 05, boiler 06, boiler 07 and boiler 08 shall each not exceed five-tenths (0.5) pounds per MMBtu heat input.

D.1.2 PSD Minor Source Limit [326 IAC 2-2]

(a) The sourcewide input of no. 2 fuel oil to the five (5) boilers and one (1) dryer shall be limited to 6,343,000 gallons (6,343 kgal) per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The sulfur content of the no. 2 fuel oil usage shall be limited to a maximum of 0.5% based on a calendar month average.

(c) The coal, natural gas, processed grease, and waste/spec used oil usage from the five (5) boilers and one (1) dryer shall be counted toward the no. 2 fuel usage and shall have the following fuel equivalency to 1,000 gallons (1 kgal) of No. 2 fuel oil:

(1) 1,070 gallons (1.07 kgal) of waste oil/spec used oil burned.

(2) 130.8 million cubic feet (130.8 MMCF) of natural gas burned.

(3) 1,938,000 gallons (1,938 kgal) of processed grease burned.

(4) 4.22 tons of coal burned.

(d) The sulfur content of the coal usage shall be limited to a maximum of 2.2 % based on a calendar month average.

(e) Dry limestone shall be injected to boiler 01 when operating, at a ratio (dry limestone/coal sulfur content) established during performance test.

Compliance with this condition shall limit the SO_2 emissions below 250 tons per year, thus rendering 326 IAC 2-2, Prevention of Significant Deterioration not applicable.

D.1.3 Particulate Matter (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from boiler 01 shall be limited to 0.60 pounds per million British thermal unit (lbs/MMBtu). These limits were established by the following equation:

$$Pt = \frac{C * a * h}{76.5 * Q^{0.75} * N^{0.25}}$$

Where:

C = Maximum ground level concentration with respect to distance from the point source at the "critical wind speed for level terrain. This shall equal to 50 µg.

Pt = Pounds of particulate matter emitted per million Btu per heat input (lb/MMBtu).

Q = Total source maximum operating capacity rating in MMBtu/hr heat input.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than 1,000 MMBtu/hr.

pa = the actual controlled emission rate in lb/MMBtu using the emission factor or stack test data.

h = Stack height in feet.

D.1.4 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from boiler 05, boiler 06, boiler 07 and boiler 08 shall each be limited to 0.26 lb/MMBtu. These limits were established by the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where Pt = pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and

Q = total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.

D.1.5 Particulate Matter (PM) [326 IAC 6-3-2(e)]

Pursuant to 326 IAC 6-3-2(c), the PM emissions from dryer 04 shall not exceed 37.9 pounds per hour when operating at a process weight rate of 55,284 pounds per hour.

Interpolation of the data for the process weight rate from one hundred (100) pounds per hour up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

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

D.1.6 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan (PMP) of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

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

(a) No later than 18 months after the issuance of this Part 70 Permit Renewal T055-20227-00008, the Permittee shall conduct control efficiency testing on the dry limestone injection used to control SO_2 emissions from boiler 01. The amount of dry limestone injected per ton of coal burned (based on the worst case sulfur content of 2.2 percent) shall be established based on a minimum control efficiency of 78 percent, utilizing methods as approved by the Commissioner and 326 IAC 3-6-3 and Section C - Performance Testing. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.

(b) No later than 18 months after the issuance of this Part 70 Permit Renewal T055-20227-00008, the Permittee shall conduct efficiency testing on boiler 01 baghouse, utilizing methods as approved by the Commissioner and 326 IAC 3-6-3 and Section C - Performance Testing. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.

D.1.8 Sulfur Dioxide Emissions and Sulfur Content

Compliance when using fuel oil No. 2 in Condition D.1.2 shall be determined utilizing one of the following options.

(a) Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Limitations), sulfur dioxide emissions from the combustion of distillate #2 fuel oil shall be limited to 0.5 pounds per million British thermal units of heat input. For the purpose of determining compliance, this limitation shall be considered equivalent to a sulfur content of five tenths of a percent (0.5 %) by weight or less in the distillate fuel oil. Compliance with the limit contained in Condition**s** D.1.1 and D.1.2 may be determined by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or

(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; or

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the five (5) boilers 01, 05, 06, 07, 08, and dryer 04, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.9 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6] [326 IAC 7-1.1] 26 IAC 7-2-1]

The Permittee shall demonstrate compliance of boiler 01 with Conditions D.1.1 and D.1.2 utilizing one of the following options:

(a) Providing vendor analysis of coal delivered, if accompanied by a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(3). The certification shall include:

(1) The name of the coal supplier; and

(2) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the coal was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected); and

(3) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and

(4) The methods used to determine the properties of the coal; or

(b) Sampling and analyzing the coal by using one of the following procedures:

(1) Minimum Coal Sampling Requirements and Analysis Methods:

(A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;

(B) Coal shall be sampled at least one (1) time per day;

(C) Minimum sample size shall be five hundred (500) grams;

(D) Samples shall be composited and analyzed at the end of each calendar month;

(E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), (e); or

(2) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or

(c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) or (b) above. [326 IAC 7-2-1(b)]

A determination of noncompliance pursuant to any of the methods specified in (a), (b), or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.10 Particulate Matter (PM) Controls and Sulfur Dioxide (SO_2) Control

The cyclone centrifugal separators and baghouse associated with boiler 01, the cyclone centrifugal separator associated with dryer 04, and the baghouse and dry limestone injection system associated with boiler 01 for PM and SO_2 control, respectively shall be in operation at all times when boiler, 01 and dryer 04 are in operation and exhausting to the outside atmosphere.

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

D.1.11 Visible Emissions Notations

(a) Daily visible emission notations of the boilers 01, 05, 06, 07, 08 and dryer 04 stack exhaust shall be performed during normal daylight operations when boiler 01 is burning coal, boilers 05, 06, 07 and 08 are burning waste/on spec used oil and no. 2 fuel oil, and dryer 04 when burning no. 2 fuel oil and when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.12 Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the boiler 01, at least once weekly when boiler 01 is in operation and venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test. The Permittee shall also take response steps in accordance with Section C -Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

(c) The coal delivery system which supplies fuel to the boiler 01 is electrically interlocked with the dry limestone delivery system. When coal is fed into the boiler (on a demand-feed basis), the dry limestone delivery system is automatically activated to feed a preselected ratio. The electrical interlock of this system is set so the delivery of coal cannot occur without delivery of dry limestone. The Permittee shall perform monthly trip checks of the switches monitoring the coal delivery/limestone delivery interlock. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the interlock is not operating correctly.

D.1.13 Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.14 Control Device Inspections [326 IAC 2-7-1(21)(G)(xxix)]

An external inspection shall be performed each week of all the cyclones controlling boiler 01 when venting to the atmosphere. Inspections are not required when a cyclone is venting to the indoors.

D.1.15 Compliance Assurance Monitoring (CAM) [40 CFR Part 64]

(a) Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the baghouse controlling the PM emissions from boiler 01 when burning coal for fuel:

(1) Monitoring Approach –

Boiler 01 (PM CAM)			
PARAMETER	INDICATOR NO. 1	INDICATOR NO. 2	INDICATOR NO. 3
I. Indicator Measurement Approach	PM (concentration)	Opacity	Bag Condition
	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner – Baghouse	Method 9 visual observations.	Visual inspection.
II. Indicator Range	PM emission limit of 0.6 lb/MMBtu	An excursion is defined as an opacity measurement exceeding 20% on a 6-minute average.	An excursion is defined as failure to perform the monthly inspection.
III. Performance Criteria			
A. Data Representativeness	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner	Procedures addressed in Method 9	Baghouse inspected visually for bag leaks.
B. Verification of Operational Status	Fans amps and damper position.	NA	NA
C. QA/QC Practices and Criteria	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner	Use of a certified visible emission observer.	Trained personnel perform inspections and maintenance.
D. Monitoring Frequency	Once every 5 years.	Daily (when boiler 01 is operating and burning coal unless inclement weather).	Bi-Annual
IV. Data Collection Procedures	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner	Daily visual observations of opacity are recorded on V.E. Form.	Results of inspections and maintenance activities performed are recorded in baghouse maintenance log.
Averaging Period	Average of 3 test runs each 1 hour long	Six-minute average.	NA

(b) Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the dry limestone injection control system controlling the SO_2 emissions from boiler 01 when burning coal for fuel:

(1) Monitoring Approach –

Boiler 01 (SO_2 CAM)	
PARAMETER	INDICATOR NO. 1
I. Indicator Measurement Approach	Sulfur content of coal, SO_2 emissions in lb/MMBtu Dry limestone/coal sulfur content feed ratio, and Coal usage (counted toward the no. 2 fuel oil limit sourcewide)
II. Indicator Range	Sulfur content of coal at 2.2 % based on a calendar month average SO_2 emissions of 6 lbs/MMBtu Dry limestone/coal sulfur content feed ratio determined during performance test Coal usage (counted toward the no. 2 fuel oil limit of 6,343 kgallons/yr sourcewide)
III. Performance Criteria	
A. Data Representativeness	ASTM D3177-89 for coal sampling or other Methods approved by the Commissioner Method 6 for SO_2 or other Methods approved by the Commissioner
B. Verification of Operational Status	Dry limestone injection/coal delivery interlock system trip checks/inspections Inspection of the continuous dry limestone injection system to assure that limestone is always free-flowing Records of sulfur content of the coal and coal monthly usage
C. QA/QC Practices and Criteria	Routine inspection of the coal sampling system
D. Monitoring Frequency	Monthly recording of sulfur content for coal sampling Dry limestone/coal sulfur content feed ratio Once daily inspection of the continuous dry limestone injection system to verify that lime is free flowing
IV. Data Collection Procedures	ASTM D3177-89 for coal sampling or other Methods approved by the Commissioner Method 6 for SO_2 or other Methods approved by the Commissioner Results of inspection on the dry limestone injection/coal delivery interlock system
Averaging Period	Coal composite sample taken once every 24 hour period and analyzed monthly. Sulfur content of coal based on a calendar month average SO_2 emissions based on a calendar month

Boiler 01 (SO_2 CAM)	
PARAMETER	INDICATOR NO. 1
	average Monthly usage of coal Method 6 - every 5 years

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

D.1.16 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records for dryer 04, boilers 01, 05, 06, 07 and 08 in accordance with (1) through (8) below.

(1) Calendar dates covered in the compliance determination period;

(2) The actual No. 2 distillate fuel oil usage for each month from all five (5) boilers and dryer;

(3) The actual sulfur content of the no. 2 fuel oil usage on a thirty (30) day average,

If the fuel supplier certification is used to demonstrate compliance the following shall be maintained:

(A) Fuel supplier certifications;

(B) 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

(C) The name of the fuel supplier.

(4) The actual natural gas usage from boilers 01, 05, 06, 07, 08 and dryer 04 for each month and its equivalent No. 2 distillate fuel oil.

(5) The actual processed grease usage from boilers 05, 06, 07 and 08 for each month and its equivalent No. 2 distillate fuel oil.

(6) The actual waste/on spec used oil usage from boilers 05, 06, 07 and 08 for each month and its equivalent No. 2 distillate fuel oil.

(7) The actual coal usage from boiler 01, for each month and its equivalent No. 2 distillate fuel oil.

(A) The actual sulfur content of the coal usage on a calendar month average, and heat content of coal; and

(B) Calendar month average sulfur dioxide emission rates; and

(C) Vendor analysis of coal and coal supplier certification, if the vendor analysis is used to determine compliance.

(8) The dry limestone/coal sulfur content feed ratio of the dry limestone injection system.

(b) To document compliance with Condition D.1.12(c), the Permittee must maintain records of the dry limestone injection/coal delivery interlock monthly trip checks.

(c) To document compliance with Condition D.1.11, the Permittee shall maintain records of daily visible emission notations of the boilers stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation **(**e.g. the boiler did not burn coal, no.2 fuel oil or waste oil that day).

(d) To document compliance with Condition D.1.15(a) the Permittee shall maintain records of baghouse inspections. These records shall include as a minimum, dates, initials of the person performing the inspections, results, and corrective actions taken in response to excursions as required by the PM CAM for boiler 01.

(e) To document compliance with Condition D.1.15(b) the Permittee shall maintain records of the continuous dry limestone injection system inspection. These records shall include as a minimum, dates, initials of the person performing the inspections, results, and corrective actions taken in response to excursions as required by the SO_2 CAM for boiler 01 (e.g. if limestone is found not to be free flowing).

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

D.1.17 Reporting Requirements

(a) A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

(b) An annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent, no later than July 1 of each year for the boilers 01, 05, 06, 07, 08 and dryer 04.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(e) Material storage and handling facilities including:

(1) seven (7) enclosed tanks totaling 420 tons of capacity, used for storing tallow/grease, with enclosed piping for material handling,

(2) three (3) 250 ton capacity enclosed silos, used for storing meat meal, feather meal, and poultry meal, with three (3) screw conveyors for material handling, and

(3) one (1) 30 ton capacity enclosed silo, used for storing blood meal, with one (1) screw conveyor for material handling.

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

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

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the PM from the material storage and handling facilities shall not exceed 33.13 pounds per hour when operating at a process weight rate of 45,230 pounds per hour. The pound per hour emission rate was established as E in the following formula:

Interpolation of the data for the process weight rate from one hundred (100) pounds per hour up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

Compliance Determination Requirements

D.2.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.2.1 shall be determined by performance tests conducted in accordance with Section C - Performance Testing.

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

D.2.3 Monitoring

Monitoring of these facilities is not specifically required by this permit.

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

D.2.4 Record Keeping Requirements

There are no record keeping requirements specifically addressing these facilities.

D.2.5 Reporting Requirements

There are no reporting requirements specifically addressing these facilities.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6:

(1) Three (3) cold cleaners, each with 22 gallon reservoirs.

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

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

D.3.1 Volatile Organic Compound (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator of the cold cleaning facilities shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a matter that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

Compliance Determination Requirements

D.3.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance shall be determined by performance tests conducted in accordance with Section C - Performance Testing.

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

D.3.3 Monitoring

Monitoring of these facilities is not specifically required by this permit.

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

D.3.4 Record Keeping Requirements

There are no record keeping requirements applicable to the cold cleaning facilities.

D.3.5 Reporting Requirements

There are no reporting requirements applicable to the cold cleaning facilities.

SECTION E.1 FACILITY OPER ATION CONDITIONS

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

(c) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

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

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

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

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

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

and

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

E.1.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR Part 60, Subpart Dc] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of Standards of for Small Industrial-Commercial-Institutional Steam Generating Units which are incorporated by reference as 326 IAC 12 as specified as follows:

40 CFR 60.40c
40 CFR 60.41c
40 CFR 60.42c(d), (h)(1), (i)
40 CFR 60.43c(c), (d), (e)(1) or (2)
40 CFR 60.44c(g), (h)
40 CFR 60.45c(a), (b)
40 CFR 60.46c(e)
40 CFR 60.47c(f)
40 CFR 60.48c(a), (c), (d), (e)(1), (2), (3), (11), (f)(1), (g)(1), (2), (i), (j)

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

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Griffin Industries, Inc.
Source Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Mailing Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-20227-00008

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ 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 QUALITY

COMPLIANCE DATA SECTION
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT

Source Name: Griffin Industries, Inc.
Source Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Mailing Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-20227-00008

This form consists of 2 pages **Page 1 of 2**

Check either No. 1 or No.2
☐ 1. This is an emergency as defined in 326 IAC 2-7-1(12) · The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and · The 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
☐ 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) The 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 QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Griffin Industries, Inc.
Source Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Mailing Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-20227-00008

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

Report period
Beginning: _____
Ending: _____

Boiler Affected	Alternate Fuel	Days burning alternate fuel	
		From	To

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 QUALITY
COMPLIANCE DATA SECTION
Part 70 Quarterly Report

Page 1 of 2
This form consists of 2 pages

Source Name:	Griffin Industries, Inc.
Source Address:	CR 400 West, Route 1 Box 112, Newberry, IN 47449
Mailing Address:	CR 400 West, Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.:	T 055-20227-00008
Facility:	Source-wide emissions
Parameter:	SO_2 emissions
Limit:	6,343,000 gallons (6,343 kgal) no. 2 fuel oil

The sulfur content of the no. 2 fuel oil usage shall be limited to a maximum of 0.5% based on a calendar month average.

The coal, natural gas, processed grease, and waste/spec used oil usage from the five (5) boilers and one (1) dryer shall be counted toward the no. 2 fuel usage and shall have the following fuel equivalency to 1,000 gallons (1 kgal) of No. 2 fuel oil:

(1) 1,070 gallons (1.07 kgal) of waste oil/spec used oil burned.

(2) 130.8 million cubic feet (130.8 MMCF) of natural gas burned.

(3) 1,938,000 gallons (1,938 kgal) of processed grease burned.

(4) 4.22 tons of coal burned.

The sulfur content of the coal usage shall be limited to a maximum of 2.2 % based on a calendar month average, calculated during the reporting period.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
Part 70 Quarterly Report

Page 2 of 2

Source Name: Griffin Industries
Source Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Mailing Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-20227-00008
Facility: Source-wide emissions
Parameter: SO_2 emissions
Limit: 6,343,000 gallons (6,343 kgal) no. 2 fuel oil

QUARTER: _____YEAR:_____

Month	Fuel Type	Other Type of Fuel Usage This Month (gal, MMCF, or ton)	% Average Sulfur Content if applicable This Month	No. 2 Fuel Oil Equivalent (gallons) This Month	Other Type of Fuel Usage Previous 11 Months (gal, MMCF, or ton)	No. 2 Fuel Oil Equivalent (gallons) Previous 11 Months	Other Type of Fuel Usage12 Month Total (gal, MMCF, or ton)	No. 2 Fuel Oil Equivalent (gallons) 12 Month Total

☐ No deviation occurred in this quarter.

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

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

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

PART 70 OPERATING PERMIT
QUARTERLY COMPLIANCE MONITORING REPORT

Source Name: Griffin Industries
Source Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Mailing Address: CR 400 West, Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-2022700008

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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

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

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

Attach a signed certification to complete this report.

Title 40: Protection of Environment
PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES

Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

Source: 72 FR 32759, June 13, 2007, unless otherwise noted.

§ 60.40c Applicability and delegation of authority.

(a) Except as provided in paragraph (d) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units that meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO_2) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (§§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in §60.41c.

(d) Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under §60.14.

(e) Heat recovery steam generators that are associated with combined cycle gas turbines and meet the applicability requirements of subpart GG or KKKK of this part are not subject to this subpart. This subpart will continue to apply to all other heat recovery steam generators that are capable of combusting more than or equal to 2.9 MW (10 MMBtu/hr) heat input of fossil fuel but less than or equal to 29 MW (100 MMBtu/hr) heat input of fossil fuel. If the heat recovery steam generator is subject to this subpart, only emissions resulting from combustion of fuels in the steam generating unit are subject to this subpart. (The gas turbine emissions are subject to subpart GG or KKKK, as applicable, of this part).

(f) Any facility covered by subpart AAAA of this part is not covered by this subpart.

(g) Any facility covered by an EPA approved State or Federal section 111(d)/129 plan implementing subpart BBBB of this part is not covered by this subpart.

§ 60.41c Definitions.

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

Annual capacity factor means the ratio between the actual heat input to a steam generating unit from an individual fuel or combination of fuels during a period of 12 consecutive calendar months and the potential heat input to the steam generating unit from all fuels had the steam generating unit been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity. In the case of steam generating units that are rented or leased, the actual heat input shall be determined based on the combined heat input from all operations of the affected facility during a period of 12 consecutive calendar months.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

Coal refuse means any by-product of coal mining or coal cleaning operations with an ash content greater than 50 percent (by weight) and a heating value less than 13,900 kilojoules per kilogram (kJ/kg) (6,000 Btu per pound (Btu/lb) on a dry basis.

Cogeneration steam generating unit means a steam generating unit that simultaneously produces both electrical (or mechanical) and thermal energy from the same primary energy source.

Combined cycle system means a system in which a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or more effective prevention or control of air pollutant emissions from combustion, provided that, during these periods of research and development, the heat generated is not used for any purpose other than preheating combustion air for use by that steam generating unit (*i.e.* , the heat generated is released to the atmosphere without being used for space heating, process heating, driving pumps, preheating combustion air for other units, generating electricity, or any other purpose).

Conventional technology means wet flue gas desulfurization technology, dry flue gas desulfurization technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

Dry flue gas desulfurization technology means a SO_2control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline reagent and water, whether introduced separately or as a premixed slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline reagents used in dry flue gas desulfurization systems include, but are not limited to, lime and sodium compounds.

Duct burner means a device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Emerging technology means any SO_2control system that is not defined as a conventional technology under this section, and for which the owner or operator of the affected facility has received approval from the Administrator to operate as an emerging technology under §60.48c(a)(4).

Federally enforceable means all limitations and conditions that are enforceable by the Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any

applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 51.24.

Fluidized bed combustion technology means a device wherein fuel is distributed onto a bed (or series of beds) of limestone aggregate (or other sorbent materials) for combustion; and these materials are forced upward in the device by the flow of combustion air and the gaseous products of combustion. Fluidized bed combustion technology includes, but is not limited to, bubbling bed units and circulating bed units.

Fuel pretreatment means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

Heat input means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and kilns).

Heat transfer medium means any material that is used to transfer heat from one point to another point.

Maximum design heat input capacity means the ability of a steam generating unit to combust a stated maximum amount of fuel (or combination of fuels) on a steady state basis as determined by the physical design and characteristics of the steam generating unit.

Natural gas means: (1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or (2) liquefied petroleum (LP) gas, as defined by the American Society for Testing and Materials in ASTM D1835 (incorporated by reference, see §60.17).

Noncontinental area means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

Oil means crude oil or petroleum, or a liquid fuel derived from crude oil or petroleum, including distillate oil and residual oil.

Potential sulfur dioxide emission rate means the theoretical SO_2emissions (nanograms per joule (ng/J) or lb/MMBtu heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

Process heater means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

Steam generating unit means a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.

Steam generating unit operating day means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

Wet flue gas desulfurization technology means an SO_2control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a liquid material. This definition includes devices where the liquid material is subsequently converted to another form. Alkaline reagents used in wet flue gas desulfurization systems include, but are not limited to, lime, limestone, and sodium compounds.

Wet scrubber system means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of PM or SO_2.

Wood means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including but not limited to sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

§ 60.42c Standard for sulfur dioxide (SO_2).

(a) Except as provided in paragraphs (b), (c), and (e) of this section, on and after the date on which the performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that combusts only coal shall neither: cause to be discharged into the atmosphere from the affected facility any gases that contain SO_2in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 10 percent (0.10) of the potential SO_2emission rate (90 percent reduction), nor cause to be discharged into the atmosphere from the affected facility any gases that contain SO_2in excess of 520 ng/J (1.2 lb/MMBtu) heat input. If coal is combusted with other fuels, the affected facility shall neither: cause to be discharged into the atmosphere from the affected facility any gases that contain SO_2in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 10 percent (0.10) of the potential SO_2emission rate (90 percent reduction), nor cause to be discharged into the atmosphere from the affected facility any gases that contain SO_2in excess of the emission limit is determined pursuant to paragraph (e)(2) of this section.

(b) Except as provided in paragraphs (c) and (e) of this section, on and after the date on which the performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that:

(1) Combusts only coal refuse alone in a fluidized bed combustion steam generating unit shall neither:

(i) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 20 percent (0.20) of the potential SO_2emission rate (80 percent reduction); nor

(ii) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of SO_2in excess of 520 ng/J (1.2 lb/MMBtu) heat input. If coal is fired with coal refuse, the affected facility subject to paragraph (a) of this section. If oil or any other fuel (except coal) is fired with coal refuse, the affected facility is subject to the 87 ng/J (0.20 lb/MMBtu) heat input SO_2emissions limit or the 90 percent SO_2reduction requirement specified in paragraph (a) of this section and the emission limit is determined pursuant to paragraph (e)(2) of this section.

(2) Combusts only coal and that uses an emerging technology for the control of SO_2emissions shall neither:

(i) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of 50 percent (0.50) of the potential SO_2emission rate (50 percent reduction); nor

(ii) Cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of 260 ng/J (0.60 lb/MMBtu) heat input. If coal is combusted with other fuels, the affected facility is subject to the 50 percent SO_2reduction requirement specified in this paragraph and the emission limit determined pursuant to paragraph (e)(2) of this section.

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, alone or in combination with any other fuel, and is listed in paragraphs (c)(1), (2), (3), or (4) of this section shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of the emission limit determined pursuant to paragraph (e)(2) of this section. Percent reduction requirements are not applicable to affected facilities under paragraphs (c)(1), (2), (3), or (4).

(1) Affected facilities that have a heat input capacity of 22 MW (75 MMBtu/hr) or less.

(2) Affected facilities that have an annual capacity for coal of 55 percent (0.55) or less and are subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor for coal of 55 percent (0.55) or less.

(3) Affected facilities located in a noncontinental area.

(4) Affected facilities that combust coal in a duct burner as part of a combined cycle system where 30 percent (0.30) or less of the heat entering the steam generating unit is from combustion of coal in the duct burner and 70 percent (0.70) or more of the heat entering the steam generating unit is from exhaust gases entering the duct burner.

(d) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of 215 ng/J (0.50 lb/MMBtu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.

(e) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, oil, or coal and oil with any other fuel shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2in excess of the following:

(1) The percent of potential SO_2emission rate or numerical SO_2emission rate required under paragraph (a) or (b)(2) of this section, as applicable, for any affected facility that

(i) Combusts coal in combination with any other fuel;

(ii) Has a heat input capacity greater than 22 MW (75 MMBtu/hr); and

(iii) Has an annual capacity factor for coal greater than 55 percent (0.55); and

(2) The emission limit determined according to the following formula for any affected facility that combusts coal, oil, or coal and oil with any other fuel:

$$E_s = \frac{(K_a H_a + K_b H_b + K_c H_c)}{(H_a + H_b + H_c)}$$

Where:

E_s= SO_2emission limit, expressed in ng/J or lb/MMBtu heat input;

K_a= 520 ng/J (1.2 lb/MMBtu);

K_b= 260 ng/J (0.60 lb/MMBtu);

K_c= 215 ng/J (0.50 lb/MMBtu);

H_a= Heat input from the combustion of coal, except coal combusted in an affected facility subject to paragraph (b)(2) of this section, in Joules (J) [MMBtu];

H_b= Heat input from the combustion of coal in an affected facility subject to paragraph (b)(2) of this section, in J (MMBtu); and

$H_c K_a H_b$= Heat input from the combustion of oil, in J (MMBtu).

(f) Reduction in the potential SO_2emission rate through fuel pretreatment is not credited toward the percent reduction requirement under paragraph (b)(2) of this section unless:

(1) Fuel pretreatment results in a 50 percent (0.50) or greater reduction in the potential SO_2emission rate; and

(2) Emissions from the pretreated fuel (without either combustion or post-combustion SO_2control) are equal to or less than the emission limits specified under paragraph (b)(2) of this section.

(g) Except as provided in paragraph (h) of this section, compliance with the percent reduction requirements, fuel oil sulfur limits, and emission limits of this section shall be determined on a 30-day rolling average basis.

(h) For affected facilities listed under paragraphs (h)(1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f), as applicable.

(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr).

(2) Residual oil-fired affected facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 MMBtu/hr).

(3) Coal-fired facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 MMBtu/hr).

(i) The SO_2emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.

(j) Only the heat input supplied to the affected facility from the combustion of coal and oil is counted under this section. No credit is provided for the heat input to the affected facility from

wood or other fuels or for heat derived from exhaust gases from other sources, such as stationary gas turbines, internal combustion engines, and kilns.

§ 60.43c Standard for particulate matter (PM).

(a) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification on or before February 28, 2005, that combusts coal or combusts mixtures of coal with other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater, shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of the following emission limits:

(1) 22 ng/J (0.051 lb/MMBtu) heat input if the affected facility combusts only coal, or combusts coal with other fuels and has an annual capacity factor for the other fuels of 10 percent (0.10) or less.

(2) 43 ng/J (0.10 lb/MMBtu) heat input if the affected facility combusts coal with other fuels, has an annual capacity factor for the other fuels greater than 10 percent (0.10), and is subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor greater than 10 percent (0.10) for fuels other than coal.

(b) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification on or before February 28, 2005, that combusts wood or combusts mixtures of wood with other fuels (except coal) and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater, shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of the following emissions limits:

(1) 43 ng/J (0.10 lb/MMBtu) heat input if the affected facility has an annual capacity factor for wood greater than 30 percent (0.30); or

(2) 130 ng/J (0.30 lb/MMBtu) heat input if the affected facility has an annual capacity factor for wood of 30 percent (0.30) or less and is subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor for wood of 30 percent (0.30) or less.

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

(d) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction.

(e)(1) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input, except as provided in paragraphs (e)(2), (e)(3), and (e)(4) of this section.

(2) As an alternative to meeting the requirements of paragraph (e)(1) of this section, the owner or operator of an affected facility for which modification commenced after February 28, 2005, may elect to meet the requirements of this paragraph. On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences modification after February 28, 2005 shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of both:

(i) 22 ng/J (0.051 lb/MMBtu) heat input derived from the combustion of coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels; and

(ii) 0.2 percent of the combustion concentration (99.8 percent reduction) when combusting coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels.

(3) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences modification after February 28, 2005, and that combusts over 30 percent wood (by heat input) on an annual basis and has a heat input capacity of 8.7 MW (30 MMBtu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 43 ng/J (0.10 lb/MMBtu) heat input.

(4) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, an owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts only oil that contains no more than 0.50 weight percent sulfur or a mixture of 0.50 weight percent sulfur oil with other fuels not subject to a PM standard under §60.43c and not using a post-combustion technology (except a wet scrubber) to reduce PM or SO_2emissions is not subject to the PM limit in this section.

§ 60.44c Compliance and performance test methods and procedures for sulfur dioxide.

(a) Except as provided in paragraphs (g) and (h) of this section and §60.8(b), performance tests required under §60.8 shall be conducted following the procedures specified in paragraphs (b), (c), (d), (e), and (f) of this section, as applicable. Section 60.8(f) does not apply to this section. The 30-day notice required in §60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator.

(b) The initial performance test required under §60.8 shall be conducted over 30 consecutive operating days of the steam generating unit. Compliance with the percent reduction requirements and SO_2emission limits under §60.42c shall be determined using a 30-day average. The first operating day included in the initial performance test shall be scheduled within 30 days after achieving the maximum production rate at which the affect facility will be operated, but not later than 180 days after the initial startup of the facility. The steam generating unit load during the 30-day period does not have to be the maximum design heat input capacity, but must be representative of future operating conditions.

(c) After the initial performance test required under paragraph (b) of this section and §60.8, compliance with the percent reduction requirements and SO_2emission limits under §60.42c is based on the average percent reduction and the average SO_2emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average percent reduction and SO_2emission rate are calculated to show compliance with the standard.

(d) If only coal, only oil, or a mixture of coal and oil is combusted in an affected facility, the procedures in Method 19 of appendix A of this part are used to determine the hourly SO_2emission rate (E_{ho}) and the 30-day average SO_2emission rate (E_{ao}). The hourly averages used to compute the 30-day averages are obtained from the CEMS. Method 19 of appendix A of this part shall be used to calculate $E_{ao}$when using daily fuel sampling or Method 6B of appendix A of this part.

(e) If coal, oil, or coal and oil are combusted with other fuels:

(1) An adjusted E_{ho}(E_{ho}o) is used in Equation 19–19 of Method 19 of appendix A of this part to compute the adjusted E_{ao}(E_{ao}o). The E_{ho}o is computed using the following formula:

$$E_{ho}o = \frac{E_{ho} - E_w(1 - X_k)}{X_k}$$

Where:

E_{ho}o = Adjusted E_{ho}, ng/J (lb/MMBtu);

E_{ho}= Hourly SO_2emission rate, ng/J (lb/MMBtu);

E_w= SO_2concentration in fuels other than coal and oil combusted in the affected facility, as determined by fuel sampling and analysis procedures in Method 9 of appendix A of this part, ng/J (lb/MMBtu). The value $E_w$for each fuel lot is used for each hourly average during the time that the lot is being combusted. The owner or operator does not have to measure $E_w$if the owner or operator elects to assume E_w= 0.

X_k= Fraction of the total heat input from fuel combustion derived from coal and oil, as determined by applicable procedures in Method 19 of appendix A of this part.

(2) The owner or operator of an affected facility that qualifies under the provisions of §60.42c(c) or (d) (where percent reduction is not required) does not have to measure the parameters $E_w$or $X_k$if the owner or operator of the affected facility elects to measure emission rates of the coal or oil using the fuel sampling and analysis procedures under Method 19 of appendix A of this part.

(f) Affected facilities subject to the percent reduction requirements under §60.42c(a) or (b) shall determine compliance with the SO_2emission limits under §60.42c pursuant to paragraphs (d) or (e) of this section, and shall determine compliance with the percent reduction requirements using the following formula:

(1) If only coal is combusted, the percent of potential SO_2emission rate is computed using the following formula:

$$\%P_s = 100\left(1 - \frac{\%R_g}{100}\right)\left(1 - \frac{\%R_f}{100}\right)$$

Where:

$\%P_s$= Potential SO_2emission rate, in percent;

$\%R_g$= SO_2removal efficiency of the control device as determined by Method 19 of appendix A of this part, in percent; and

$\%R_f$= SO_2removal efficiency of fuel pretreatment as determined by Method 19 of appendix A of this part, in percent.

(2) If coal, oil, or coal and oil are combusted with other fuels, the same procedures required in paragraph (f)(1) of this section are used, except as provided for in the following:

(i) To compute the $\%P_s$, an adjusted $\%R_g$($\%R_g$o) is computed from E_{ao}o from paragraph (e)(1) of this section and an adjusted average SO_2inlet rate (E_{ai}o) using the following formula:

$$\%R_g o = 100\left(1 - \frac{E_{ao}^{o}}{E_{ai}^{o}}\right)$$

Where:

$\%R_g$o = Adjusted $\%R_g$, in percent;

E_{ao}o = Adjusted E_{ao}, ng/J (lb/MMBtu); and

E_{ai}o = Adjusted average SO_2inlet rate, ng/J (lb/MMBtu).

(ii) To compute E_{ai}o, an adjusted hourly SO_2inlet rate (E_{hi}o) is used. The E_{hi}o is computed using the following formula:

$$E_{hi}o = \frac{E_{hi} - E_w(1 - X_k)}{X_k}$$

Where:

E_{hi}o = Adjusted E_{hi}, ng/J (lb/MMBtu);

E_{hi}= Hourly SO_2inlet rate, ng/J (lb/MMBtu);

E_w= SO_2concentration in fuels other than coal and oil combusted in the affected facility, as determined by fuel sampling and analysis procedures in Method 19 of appendix A of this part, ng/J (lb/MMBtu). The value $E_w$for each fuel lot is used for each hourly average during the time that the lot is being combusted. The owner or operator does not have to measure $E_w$if the owner or operator elects to assume E_w= 0; and

X_k= Fraction of the total heat input from fuel combustion derived from coal and oil, as determined by applicable procedures in Method 19 of appendix A of this part.

(g) For oil-fired affected facilities where the owner or operator seeks to demonstrate compliance with the fuel oil sulfur limits under §60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the owner or operator of the affected facility shall sample the oil in the fuel tank after each new shipment of oil is received, as described under §60.46c(d)(2).

(h) For affected facilities subject to §60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO_2standards based on fuel supplier certification, the

performance test shall consist of the certification, the certification from the fuel supplier, as described under §60.48c(f), as applicable.

(i) The owner or operator of an affected facility seeking to demonstrate compliance with the SO_2standards under §60.42c(c)(2) shall demonstrate the maximum design heat input capacity of the steam generating unit by operating the steam generating unit at this capacity for 24 hours. This demonstration shall be made during the initial performance test, and a subsequent demonstration may be requested at any other time. If the demonstrated 24-hour average firing rate for the affected facility is less than the maximum design heat input capacity stated by the manufacturer of the affected facility, the demonstrated 24-hour average firing rate shall be used to determine the annual capacity factor for the affected facility; otherwise, the maximum design heat input capacity provided by the manufacturer shall be used.

(j) The owner or operator of an affected facility shall use all valid SO_2emissions data in calculating $\%P_s$and E_{ho}under paragraphs (d), (e), or (f) of this section, as applicable, whether or not the minimum emissions data requirements under §60.46c(f) are achieved. All valid emissions data, including valid data collected during periods of startup, shutdown, and malfunction, shall be used in calculating $\%P_s$or E_{ho}pursuant to paragraphs (d), (e), or (f) of this section, as applicable.

§ 60.45c Compliance and performance test methods and procedures for particulate matter.

(a) The owner or operator of an affected facility subject to the PM and/or opacity standards under §60.43c shall conduct an initial performance test as required under §60.8, and shall conduct subsequent performance tests as requested by the Administrator, to determine compliance with the standards using the following procedures and reference methods, except as specified in paragraph (c) of this section.

(1) Method 1 of appendix A of this part shall be used to select the sampling site and the number of traverse sampling points.

(2) Method 3 of appendix A of this part shall be used for gas analysis when applying Method 5, 5B, or 17 of appendix A of this part.

(3) Method 5, 5B, or 17 of appendix A of this part shall be used to measure the concentration of PM as follows:

(i) Method 5 of appendix A of this part may be used only at affected facilities without wet scrubber systems.

(ii) Method 17 of appendix A of this part may be used at affected facilities with or without wet scrubber systems provided the stack gas temperature does not exceed a temperature of 160 °C (320 °F). The procedures of Sections 8.1 and 11.1 of Method 5B of appendix A of this part may be used in Method 17 of appendix A of this part only if Method 17 of appendix A of this part is used in conjunction with a wet scrubber system. Method 17 of appendix A of this part shall not be used in conjunction with a wet scrubber system if the effluent is saturated or laden with water droplets.

(iii) Method 5B of appendix A of this part may be used in conjunction with a wet scrubber system.

(4) The sampling time for each run shall be at least 120 minutes and the minimum sampling volume shall be 1.7 dry standard cubic meters (dscm) [60 dry standard cubic feet (dscf)] except

that smaller sampling times or volumes may be approved by the Administrator when necessitated by process variables or other factors.

(5) For Method 5 or 5B of appendix A of this part, the temperature of the sample gas in the probe and filter holder shall be monitored and maintained at 160 ±14 °C (320±25 °F).

(6) For determination of PM emissions, an oxygen (O_2) or carbon dioxide (CO_2) measurement shall be obtained simultaneously with each run of Method 5, 5B, or 17 of appendix A of this part by traversing the duct at the same sampling location.

(7) For each run using Method 5, 5B, or 17 of appendix A of this part, the emission rates expressed in ng/J (lb/MMBtu) heat input shall be determined using:

(i) The O_2or CO_2measurements and PM measurements obtained under this section, (ii) The dry basis F factor, and

(iii) The dry basis emission rate calculation procedure contained in Method 19 of appendix A of this part.

(8) Method 9 of appendix A of this part (6-minute average of 24 observations) shall be used for determining the opacity of stack emissions.

(b) The owner or operator of an affected facility seeking to demonstrate compliance with the PM standards under §60.43c(b)(2) shall demonstrate the maximum design heat input capacity of the steam generating unit by operating the steam generating unit at this capacity for 24 hours. This demonstration shall be made during the initial performance test, and a subsequent demonstration may be requested at any other time. If the demonstrated 24-hour average firing rate for the affected facility is less than the maximum design heat input capacity stated by the manufacturer of the affected facility, the demonstrated 24-hour average firing rate shall be used to determine the annual capacity factor for the affected facility; otherwise, the maximum design heat input capacity provided by the manufacturer shall be used.

(c) In place of PM testing with EPA Reference Method 5, 5B, or 17 of appendix A of this part, an owner or operator may elect to install, calibrate, maintain, and operate a CEMS for monitoring PM emissions discharged to the atmosphere and record the output of the system. The owner or operator of an affected facility who elects to continuously monitor PM emissions instead of conducting performance testing using EPA Method 5, 5B, or 17 of appendix A of this part shall install, calibrate, maintain, and operate a CEMS and shall comply with the requirements specified in paragraphs (c)(1) through (c)(13) of this section.

(1) Notify the Administrator 1 month before starting use of the system.

(2) Notify the Administrator 1 month before stopping use of the system.

(3) The monitor shall be installed, evaluated, and operated in accordance with §60.13 of subpart A of this part.

(4) The initial performance evaluation shall be completed no later than 180 days after the date of initial startup of the affected facility, as specified under §60.8 of subpart A of this part or within 180 days of notification to the Administrator of use of CEMS if the owner or operator was previously determining compliance by Method 5, 5B, or 17 of appendix A of this part performance tests, whichever is later.

(5) The owner or operator of an affected facility shall conduct an initial performance test for PM emissions as required under §60.8 of subpart A of this part. Compliance with the PM emission limit shall be determined by using the CEMS specified in paragraph (d) of this section to measure PM and calculating a 24-hour block arithmetic average emission concentration using EPA Reference Method 19 of appendix A of this part, section 4.1.

(6) Compliance with the PM emission limit shall be determined based on the 24-hour daily (block) average of the hourly arithmetic average emission concentrations using CEMS outlet data.

(7) At a minimum, valid CEMS hourly averages shall be obtained as specified in paragraph (d)(7)(i) of this section for 75 percent of the total operating hours per 30-day rolling average.

(i) At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

(ii) [Reserved]

(8) The 1-hour arithmetic averages required under paragraph (d)(7) of this section shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the boiler operating day daily arithmetic average emission concentrations. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2) of subpart A of this part.

(9) All valid CEMS data shall be used in calculating average emission concentrations even if the minimum CEMS data requirements of paragraph (d)(7) of this section are not met.

(10) The CEMS shall be operated according to Performance Specification 11 in appendix B of this part.

(11) During the correlation testing runs of the CEMS required by Performance Specification 11 in appendix B of this part, PM and O_2(or CO_2) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified in paragraph (d)(7)(i) of this section.

(i) For PM, EPA Reference Method 5, 5B, or 17 of appendix A of this part shall be used.

(ii) For O_2(or CO_2), EPA reference Method 3, 3A, or 3B of appendix A of this part, as applicable shall be used.

(12) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with procedure 2 in appendix F of this part. Relative Response Audit's must be performed annually and Response Correlation Audits must be performed every 3 years.

(13) When PM emissions data are not obtained because of CEMS breakdowns, repairs, calibration checks, and zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by the Administrator or EPA Reference Method 19 of appendix A of this part to provide, as necessary, valid emissions data for a minimum of 75 percent of total operating hours on a 30-day rolling average.

(d) The owner or operator of an affected facility seeking to demonstrate compliance under §60.43c(e)(4) shall follow the applicable procedures under §60.48c(f). For residual oil-fired affected facilities, fuel supplier certifications are only allowed for facilities with heat input capacities between 2.9 and 8.7 MW (10 to 30 MMBtu/hr).

§ 60.46c Emission monitoring for sulfur dioxide.

(a) Except as provided in paragraphs (d) and (e) of this section, the owner or operator of an affected facility subject to the SO_2emission limits under §60.42c shall install, calibrate, maintain, and operate a CEMS for measuring SO_2concentrations and either O_2or CO_2concentrations at the outlet of the SO_2control device (or the outlet of the steam generating unit if no SO_2control device is used), and shall record the output of the system. The owner or operator of an affected facility subject to the percent reduction requirements under §60.42c shall measure SO_2concentrations and either O_2or CO_2concentrations at both the inlet and outlet of the SO_2control device.

(b) The 1-hour average SO_2emission rates measured by a CEMS shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under §60.42c. Each 1-hour average SO_2emission rate must be based on at least 30 minutes of operation, and shall be calculated using the data points required under §60.13(h)(2). Hourly SO_2emission rates are not calculated if the affected facility is operated less than 30 minutes in a 1-hour period and are not counted toward determination of a steam generating unit operating day.

(c) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the CEMS.

(1) All CEMS shall be operated in accordance with the applicable procedures under Performance Specifications 1, 2, and 3 of appendix B of this part.

(2) Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with Procedure 1 of appendix F of this part.

(3) For affected facilities subject to the percent reduction requirements under §60.42c, the span value of the SO_2CEMS at the inlet to the SO_2control device shall be 125 percent of the maximum estimated hourly potential SO_2emission rate of the fuel combusted, and the span value of the SO_2CEMS at the outlet from the SO_2control device shall be 50 percent of the maximum estimated hourly potential SO_2emission rate of the fuel combusted.

(4) For affected facilities that are not subject to the percent reduction requirements of §60.42c, the span value of the SO_2CEMS at the outlet from the SO_2control device (or outlet of the steam generating unit if no SO_2control device is used) shall be 125 percent of the maximum estimated hourly potential SO_2emission rate of the fuel combusted.

(d) As an alternative to operating a CEMS at the inlet to the SO_2control device (or outlet of the steam generating unit if no SO_2control device is used) as required under paragraph (a) of this section, an owner or operator may elect to determine the average SO_2emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO_2control device (or outlet of the steam generating unit if no SO_2control device is used) as required under paragraph (a) of this section, an owner or operator may elect to determine the average SO_2emission rate by using Method 6B of appendix A of this part. Fuel sampling shall be conducted pursuant to either paragraph (d)(1) or (d)(2) of this section. Method 6B of appendix A of this part shall be conducted pursuant to paragraph (d)(3) of this section.

(1) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the Method 19 of appendix A of this part. Method 19 of appendix A of this part provides procedures for converting these measurements into the format to be used in calculating the average SO_2input rate.

(2) As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The owner or operator of the affected facility shall

analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the owner or operator shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less.

(3) Method 6B of appendix A of this part may be used in lieu of CEMS to measure SO_2at the inlet or outlet of the SO_2control system. An initial stratification test is required to verify the adequacy of the Method 6B of appendix A of this part sampling location. The stratification test shall consist of three paired runs of a suitable $SO_2$and CO_2measurement train operated at the candidate location and a second similar train operated according to the procedures in §3.2 and the applicable procedures in section 7 of Performance Specification 2 of appendix B of this part. Method 6B of appendix A of this part, Method 6A of appendix A of this part, or a combination of Methods 6 and 3 of appendix A of this part or Methods 6C and 3A of appendix A of this part are suitable measurement techniques. If Method 6B of appendix A of this part is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for Method 6B of appendix A of this part 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10).

(e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO_2standards based on fuel supplier certification, as described under §60.48c(f), as applicable.

(f) The owner or operator of an affected facility operating a CEMS pursuant to paragraph (a) of this section, or conducting as-fired fuel sampling pursuant to paragraph (d)(1) of this section, shall obtain emission data for at least 75 percent of the operating hours in at least 22 out of 30 successive steam generating unit operating days. If this minimum data requirement is not met with a single monitoring system, the owner or operator of the affected facility shall supplement the emission data with data collected with other monitoring systems as approved by the Administrator.

§ 60.47c Emission monitoring for particulate matter.

(a) Except as provided in paragraphs (c), (d), (e), and (f) of this section, the owner or operator of an affected facility combusting coal, oil, or wood that is subject to the opacity standards under §60.43c shall install, calibrate, maintain, and operate a COMS for measuring the opacity of the emissions discharged to the atmosphere and record the output of the system.

(b) All COMS for measuring opacity shall be operated in accordance with the applicable procedures under Performance Specification 1 of appendix B of this part. The span value of the opacity COMS shall be between 60 and 80 percent.

(c) Affected facilities that burn only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.06 lb/MMBtu) heat input or less and that do not use a post-combustion technology to reduce SO_2or PM emissions are not required to operate a CEMS for measuring opacity if they follow the applicable procedures under §60.48c(f).

(d) Owners or operators complying with the PM emission limit by using a PM CEMS monitor instead of monitoring opacity must calibrate, maintain, and operate a CEMS, and record the

output of the system, for PM emissions discharged to the atmosphere as specified in §60.45c(d). The CEMS specified in paragraph §60.45c(d) shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(e) An affected facility that does not use post-combustion technology (except a wet scrubber) for reducing PM, SO_2, or carbon monoxide (CO) emissions, burns only gaseous fuels or fuel oils that contain less than or equal to 0.5 weight percent sulfur, and is operated such that emissions of CO to the atmosphere from the affected facility are maintained at levels less than or equal to 0.15 lb/MMBtu on a boiler operating day average basis is not required to operate a COMS for measuring opacity. Owners and operators of affected facilities electing to comply with this paragraph must demonstrate compliance according to the procedures specified in paragraphs (e)(1) through (4) of this section.

(1) You must monitor CO emissions using a CEMS according to the procedures specified in paragraphs (e)(1)(i) through (iv) of this section.

(i) The CO CEMS must be installed, certified, maintained, and operated according to the provisions in §60.58b(i)(3) of subpart Eb of this part.

(ii) Each 1-hour CO emissions average is calculated using the data points generated by the CO CEMS expressed in parts per million by volume corrected to 3 percent oxygen (dry basis).

(iii) At a minimum, valid 1-hour CO emissions averages must be obtained for at least 90 percent of the operating hours on a 30-day rolling average basis. At least two data points per hour must be used to calculate each 1-hour average.

(iv) Quarterly accuracy determinations and daily calibration drift tests for the CO CEMS must be performed in accordance with procedure 1 in appendix F of this part.

(2) You must calculate the 1-hour average CO emissions levels for each steam generating unit operating day by multiplying the average hourly CO output concentration measured by the CO CEMS times the corresponding average hourly flue gas flow rate and divided by the corresponding average hourly heat input to the affected source. The 24-hour average CO emission level is determined by calculating the arithmetic average of the hourly CO emission levels computed for each steam generating unit operating day.

(3) You must evaluate the preceding 24-hour average CO emission level each steam generating unit operating day excluding periods of affected source startup, shutdown, or malfunction. If the 24-hour average CO emission level is greater than 0.15 lb/MMBtu, you must initiate investigation of the relevant equipment and control systems within 24 hours of the first discovery of the high emission incident and, take the appropriate corrective action as soon as practicable to adjust control settings or repair equipment to reduce the 24-hour average CO emission level to 0.15 lb/MMBtu or less.

(4) You must record the CO measurements and calculations performed according to paragraph (e) of this section and any corrective actions taken. The record of corrective action taken must include the date and time during which the 24-hour average CO emission level was greater than 0.15 lb/MMBtu, and the date, time, and description of the corrective action.

(f) An affected facility that burns only gaseous fuels or fuel oils that contain less than or equal to 0.5 weight percent sulfur and operates according to a written site-specific monitoring plan approved by the appropriate delegated permitting authority is not required to operate a COMS for measuring opacity. This monitoring plan must include procedures and criteria for establishing and

monitoring specific parameters for the affected facility indicative of compliance with the opacity standard.

§ 60.48c Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

(2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

(4) Notification if an emerging technology will be used for controlling SO_2emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

(b) The owner or operator of each affected facility subject to the SO_2emission limits of §60.42c, or the PM or opacity limits of §60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B of this part.

(c) The owner or operator of each coal-fired, oil-fired, or wood-fired affected facility subject to the opacity limits under §60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period.

(d) The owner or operator of each affected facility subject to the SO_2emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit reports to the Administrator.

(e) The owner or operator of each affected facility subject to the SO_2emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.

(1) Calendar dates covered in the reporting period.

(2) Each 30-day average SO_2emission rate (ng/J or lb/MMBtu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.

(3) Each 30-day average percent of potential SO_2emission rate calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of the corrective actions taken.

(4) Identification of any steam generating unit operating days for which SO_2or diluent (O_2or CO_2) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken.

(5) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit.

(6) Identification of the F factor used in calculations, method of determination, and type of fuel combusted.

(7) Identification of whether averages have been obtained based on CEMS rather than manual sampling methods.

(8) If a CEMS is used, identification of any times when the pollutant concentration exceeded the full span of the CEMS.

(9) If a CEMS is used, description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specifications 2 or 3 of appendix B of this part.

(10) If a CEMS is used, results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.

(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), (3), or (4) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

(f) Fuel supplier certification shall include the following information:

(1) For distillate oil:

(i) The name of the oil supplier;

(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c; and

(iii) The sulfur content of the oil.

(2) For residual oil:

(i) The name of the oil supplier;

(ii) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location;

(iii) The sulfur content of the oil from which the shipment came (or of the shipment itself); and

(iv) The method used to determine the sulfur content of the oil.

(3) For coal:

(i) The name of the coal supplier;

(ii) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the sample was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected);

(iii) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and

(iv) The methods used to determine the properties of the coal.

(4) For other fuels:

(i) The name of the supplier of the fuel;

(ii) The potential sulfur emissions rate of the fuel in ng/J heat input; and

(iii) The method used to determine the potential sulfur emissions rate of the fuel.

(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO_2standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO_2standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

(h) The owner or operator of each affected facility subject to a federally enforceable requirement limiting the annual capacity factor for any fuel or mixture of fuels under §60.42c or §60.43c shall calculate the annual capacity factor individually for each fuel combusted. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the calendar month.

(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

(j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a
Significant Source Modification to a Part 70 Source
and Part 70 Operating Permit Renewal

Source Description and Location

Source Name:	Griffin Industries, Inc.
Source Location:	CR 400 West, Route 1 Box 112, Newberry, Indiana 47499-9729
County:	Greene
SIC Code:	2077
Part 70 Operating Permit No.:	T055-6360-00008
Part 70 Operating Permit Issuance Date:	October 4, 2000
Significant Source Modification No.:	055-25477-00008
Part 70 Operating Permit Renewal No.:	T055-20227-00008
Permit Reviewer:	Aida De Guzman

Existing Approvals

Since the issuance of Part 70 Operating Permit No. 055-6360-00008 on October 4, 2000, the source has been issued the following approval:

(a) First Administrative Amendment AA055-13832-00008 on March 15, 2001;

(b) First Significant Permit Modification 055-24866-00008 on December 18, 2007.

County Attainment Status

The source is located in Greene County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Attainment effective December 29, 2005, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective April 5, 2005, for PM2.5.

(a) Greene County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.

(b) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air

Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Greene County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Greene County has been classified as attainment or unclassifiable in Indiana for CO, NO_2, SO_2, and PM10. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard.

(e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(f) Fugitive Emissions
Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Source Status

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

Pollutant	Emissions (tons/year)
PM	140
PM10	140
SO_2	249
VOC	1.28
CO	188
NO_x	60.9

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is in not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

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

HAPs	Potential To Emit (tons/year)
Hydrogen Chloride	9.98
Hydrogen Fluoride	1.46
Hexane	0.42
Other HAP	0.22
TOTAL	12.08

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because no single HAP is emitted at ten (10) tons per year or more and the combined HAPs are emitted at less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2005 calendar year OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	--
PM10	9.0
PM2.5	3.0
SO_2	76.0
NOx	62.0
VOC	0.0
CO	67.0
Pb	0.01

Description of Proposed Modification

Griffin Industries, Inc. was issued a Part 70 Operating Permit T055-6063-00008 on October 4, 2000 for a stationary animal and agricultural byproducts rendering plant. A letter requesting a modification to the existing source and changes to the Part 70 Permit have been received on October 30, 2007, which involves the construction and removal of the following emission units:

(a) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

(b) Removal of the existing one (1) traveling grate, coal-fired boiler, identified as 02, with a heat input capacity of 50 MMBtu/hr.

Since the source has a pending renewal to the existing Part 70 Permit, these changes will be incorporated into the Part 70 Operating Permit Renewal instead of issuing a Significant Permit Modification to the source existing Part 70 Permit No. T055-6360-00008.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Pages 1 through 24 of Appendix A of this document for detailed emission calculations.

Permit Level Determination – Part 70

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

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

Pollutant	Potential To Emit (ton/yr)
PM	170.10
PM_{10}	135.50
SO_2	369.90
VOC	4.70
CO	55.40
NO_X	113.10

HAPs Potential To Emit (tons/year)						
No. 2 Fuel Oil		Waste Oil/On Spec Used Oil		Natural Gas		Grease
Arsenic	2.64E-03	Arsenic	6.39E-01	Benzene	5.224E-01	No HAP
Beryllium	1.98E-03	Cadmium	4.41E-02	Dichlorobenzene	7.916E-04	
Cadmium	1.98E-03	Chromium	1.16E-01	Formaldehyde	4.9474E-02	
Chromium	1.98E-03	Manganese	3.23E-01	Hexane	1.187E+00	
Lead	7.27E-03	Nickel	6.39E-02	Toluene	2.243E-03	
Mercury	1.98E-03	Cobalt	1.22E-03	Lead	3.298E-04	
Manganese	3.96E-03			Cadmium	7.256E-04	
Nickel	1.98E-03			Chromium	9.235E-04	
Selenium	1.21E-02			Manganese	9.235E-04	
				Nickel	1.385E-03	
Worst Single HAP from Worst Fuel (Hexane)						1.187E+00
Combined HAPs from Worst Fuel (Natural Gas)						1.245E+00

(a) The proposed modification has an uncontrolled potential to emit from at least one of the pollutants (PM, PM10, SO2, and NOx) equal to or greater than 25 tons per year. Therefore, the source is subject to the Significant Source Modification provisions of 326 IAC 2-7-10.5(f).

(b) The modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), since the modification requires new compliance monitoring, compliance testing and recordkeeping. This Significant Permit Modification will be incorporated into the pending Part 70 Operating Permit Renewal.

Permit Level Determination – PSD

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

Controlled/Limited Potential To Emit (tons/year)						
Process/Emission Unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**
Modification:						
New Boilers 05, 06 and 07	35.1	28.0	76.4	1.0	11.4	23.3
New Boiler 08	7.9	6.3	17.1	0.2	2.6	5.2
Existing Emission Units:						
Boiler 01	27.9	10.5	145.4	0.2	31.3	13.0
Dryer 04	0.3	0.4	10.1	0.1	1.5	3.1

Controlled/Limited Potential To Emit (tons/year)						
Process/Emission Unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**
Sourcewide Limit	71.1.0	45.2	249.0	1.5	46.8	44.7

This proposed source modification has a potential to emit (PTE) sulfur dioxide (SO_2) and particulate matter (PM) 250 tons per year or greater as reflected in the Uncontrolled PTE Table on Page 4 of this document. However, the source chose to limit their fuel usage to limit the PTE to less than 250 tons per year, as reflected in the above table to avoid the applicability of 326 IAC 2-2 (PSD) and also to remain a minor PSD source. See detailed PTE limits calculations on Page 1 of 24 and Page 24 of 24 of Appendix A to this TSD.

Federal Rule Applicability Determination

(a) New Source Performance Standards (NSPS) - 40 CFR Part 60 and 326 IAC 12

(1) 40 CFR 60.40c, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

(A) The proposed new boilers 05, 06 and 07, each with a heat input capacity of 50.2 MMBtu/hr and boiler 08 with a heat input of 33.746 MMBtu/hr fired by no. 2 fuel oil, natural gas, grease and waste/on spec used oil are subject to this rule.

Nonapplicable portions of the NSPS will not be included in the permit. The following requirements shall apply to these boilers:

40 CFR 60.40c
40 CFR 60.41c
40 CFR 60.42c(d), (h)(1), (i)
40 CFR 60.43c(c), (d), (e)(1) or (2)
40 CFR 60.44c(g), (h)
40 CFR 60.45c(a), (b)
40 CFR 60.46c(e)
40 CFR 60.47c(f)
40 CFR 60.48c(a), (c), (d), (e)(1), (2), (3), (11), (f)(1), (g)(1), (2), (i), (j)

(B) The existing 50 MMBtu/hr coal-fired Boilers 01, which is constructed in 1981 is not subject to 40 CFR 60, Subpart Dc because it was constructed before June 9, 1989 (applicability date of this NSPS).

(b) National Emissions Standards for Hazardous Air Pollutants (NESHAPs) - 326 IAC 14, 326 IAC 20 and 40 CFR Part 63

There are no NESHAPs applicable to the modification.

(c) Compliance Assurance Monitoring (CAM) - 40 CFR 64.2

Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
New Boiler 05	No	Y	123.3 (SO_2)	27.0 Limited (SO_2)	100	N	-
New Boiler 06	No	Y	123.3 (SO_2)	27.0 Limited (SO_2)	100	N	-
New Boiler 07	No	Y	123.3 (SO_2)	27.0 Limited (SO_2)	100	N	-
Boiler 01	Yes	Y	704.20 (SO_2)	156.1 (SO_2)	100	Y	Y
	Y	Y	135.10 (PM)	29.9 (PM)	100	Y	N

(1) Boilers 05, 06, and 07 are not subject to CAM because they do not have control devices to comply with the standards.

(2) Boiler 01 is subject to CAM for PM since it is using a control device (baghouse) to control its PM emissions when burning coal, in order to comply with 326 IAC 6-2-3.

(3) Boiler 01 is subject to CAM for SO_2 since it is using a control device (dry limestone injection system) in combination with the fuel usage limit to avoid the applicability of 326 IAC 2-2, PSD and to comply with 326 IAC 7-1 (Sulfur Dioxide Emission Limitation).

Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the Boiler 01 when burning coal for fuel:

(A) Monitoring Approach – For Boiler 01 when burning coal:

Boiler 01 (PM CAM)			
PARAMETER	INDICATOR NO. 1	INDICATOR NO. 2	INDICATOR NO. 3
I. Indicator Measurement Approach	PM (concentration)	Opacity	Bag Condition
	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner – Baghouse	Method 9 visual observations.	Visual inspection.
II. Indicator Range	PM emission limit of 0.6 lb/MMBtu	An excursion is defined as an opacity measurement exceeding 20% on a 6-minute average.	An excursion is defined as failure to perform the monthly inspection.
III. Performance Criteria			
A. Data Representativeness	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner	Procedures addressed in Method 9	Baghouse inspected visually for bag leaks.

Boiler 01 (PM CAM)			
PARAMETER	INDICATOR NO. 1	INDICATOR NO. 2	INDICATOR NO. 3
B. Verification of Operational Status	Fans amps and damper position.	NA	NA
C. QA/QC Practices and Criteria	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner	Use of a certified visible emission observer.	Trained personnel perform inspections and maintenance.
D. Monitoring Frequency	Once every 5 years.	Daily (when boiler 01 is operating and burning coal unless inclement weather).	Bi-Annual
IV. Data Collection Procedures	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner	Daily visual observations of opacity are recorded on V.E. Form.	Results of inspections and maintenance activities performed are recorded in baghouse maintenance log.
Averaging Period	Average of 3 test runs each 1 hour long	Six-minute average.	NA

Boiler 01 (SO2 CAM)	
PARAMETER	INDICATOR NO. 1
I. Indicator Measurement Approach	Sulfur content of coal, SO2 emissions in lb/MMBtu Dry limestone/coal sulfur content feed ratio, and Coal usage (counted toward the no. 2 fuel oil limit sourcewide)
II. Indicator Range	Sulfur content of coal at 2.2 % based on a calendar month average SO2 emissions of 6 lbs/MMBtu Dry limestone/coal sulfur content feed ratio determined during performance test Coal usage (counted toward the no. 2 fuel oil limit of 6,343 kgallons/yr sourcewide)
III. Performance Criteria	
A. Data Representativeness	ASTM D3177-89 for coal sampling or other Methods approved by the Commissioner Method 6 for SO2 or other Methods approved by the Commissioner
B. Verification of Operational Status	Dry limestone injection/coal delivery interlock system trip checks/inspections Inspection of the continuous dry limestone injection system to assure that limestone is always free-flowing Records of sulfur content of the coal and coal monthly usage
C. QA/QC Practices and Criteria	Routine inspection of the coal sampling system
D. Monitoring Frequency	Monthly recording of sulfur content for coal sampling Dry limestone/coal sulfur content feed ratio Once daily inspection of the continuous limestone injection system to verify that lime is free flowing

Boiler 01 (SO2 CAM)	
PARAMETER	INDICATOR NO. 1
IV. Data Collection Procedures	ASTM D3177-89 for coal sampling or other Methods approved by the Commissioner Method 6 for SO2 or other Methods approved by the Commissioner Results of inspection on the dry limestone injection/coal delivery interlock system
Averaging Period	Coal composite sample taken once every 24 hour period and analyzed monthly. Sulfur content of coal based on a calendar month average SO2 emissions based on a calendar month average Monthly usage of coal Method 6 - every 5 years

State Rule Applicability Determination

(a) 326 IAC 2-2 (PSD)

This proposed source modification, which involves the construction of Boilers 05, 06, 07, and 08 has the potential to emit (PTE) sulfur dioxide (SO_2) and particulate matter (PM) of 250 tons per year or greater. However, the source will be limited by the fuel usage which will limit the SO_2 and particulate matter (PM) emissions to less than 250 tons per year. This limitation will also keep the source a minor PSD source.

(b) 326 Pursuant to 326 IAC 2-6-3 (Emission Reporting)

The source has the potential to emit SO_2 (which in this case is the source's SO_2 allowable or permitted level) of less than 250 tons per year. Therefore, it is subject to 326 IAC 2-6-3(b)(3), for Part 70 sources with PTE SO_2 of less than 2,500 tons per year, which requires that starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

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

(d) 326 IAC 6-2 (Indirect Heating Facilities)

(1) Existing boiler 01, which was installed and in operation before September 21, 1983 is subject to 326 IAC 6-2-3. This rule mandates a PM emissions limit using the following equation:

$$Pt = \frac{C * a * h}{76.5 * Q^{0.75} * N^{0.25}}$$

$$= \frac{50 * 0.67 * 42.5}{76.5 * 50^{0.75} * 1^{0.25}}$$

$$= 0.989 \text{ lb/MMBtu} > 0.60 \text{ lb/MMBtu}$$

Pursuant to section (e) of this rule, for Q of 250 mmBtu/hr or less, which began operation after June 8, 1972, the PM emission limit shall in no case exceed 0.6 lb/MMBtu heat input.

Where:

C = Maximum ground level concentration with respect to distance from the point source at the "critical wind speed for level terrain. This shall equal to 50 µg.

Pt = Pounds of particulate matter emitted per million Btu per heat input (lb/MMBtu).

Q = Total source maximum operating capacity rating in MMBtu/hr heat input.
= 50 MMBtu/hr

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than 1,000 MMBtu/hr.

pa = the actual controlled emission rate in lb/MMBtu using the emission factor or stack test data.

h = Stack height in feet.

Using natural gas for fuel:
1.9 lb/MMCF * MMCF/1000 MMBtu = 0.019 lb/MMBtu < 0.6 lb/MMBtu, therefore boiler 01 is in compliance with the rule when burning natural gas.

Using coal for fuel:
135.1 ton of PM/yr * yr/8760 hr * hr/50 MMBtu * 200 lb/ton = 0.62 lb/MMBtu > 0.6 lb/MMBtu
Therefore, the baghouse is necessary when burning coal, in order to be in compliance with 326 IAC 6-2-3.

(2) The proposed new Boilers 05, 06, 07, and 08 are subject to 326 IAC 6-2-4 for indirect heating facilities constructed on or after September 21, 1983. This rule mandates a PM emissions limit using the following equation:

$$Pt = 1.09/Q^{0.26}$$
$$= 0.26 \text{ lb/MMBtu}$$

Where:

Pt	=	Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input, and
Q	=	Total source maximum operating capacity rating in MMBtu/hour 234.346 MMBtu/hr

Using natural gas for fuel:
1.9 lb/MMCF * MMCF/1000 mmBtu = 0.019 lb/mmBtu < 0.26 lb/mmBtu, therefore, boilers 05, 06, 07 and 08 are in compliance with the rule when burning natural gas.

Using grease for fuel:
0.010 lb/MMBtu < 0.26 lb/MMBtu, therefore, boilers 05, 06, 07 and 08 are in compliance with the rule when burning grease.

No. 2 fuel oil for fuel:
2 lb/kgal * 1 kgal/1000 gal * 1 gal/0.140 MMBtu = 0.014 lb/MMBtu< 0.26 lb/MMBtu, therefore, boilers 05, 06, 07 and 08 are in compliance with the rule when burning no. 2 fuel oil.

Waste/On spec used oil for fuel:
35.8 lb/kgal * 1 kgal/1000 gal * 1 gal/0.139 MMBtu = 0.26 lb/MMBtu, meets the limit of 0.26 lb/MMBtu. Therefore, boilers 05, 06, 07 and 08 are in compliance with the rule when burning Waste/On spec used oil.

(e) 326 IAC 7-1 (Sulfur Dioxide Emissions Limitation)

(1) Existing boiler 01- Pursuant to TV 055-6063-00008, issued on October 4, 2000 and 326 IAC 7-1, boiler 01 was limited to 6 pounds per million Btu of heat input, and in order to comply with this limit, the dry limestone injection control device shall be in operation at all times that boiler 01 is in operation.

Using coal for fuel:
156.1 tons of SO2 (limit)/yr * yr/8760 hrs * hr/50 MMBtu *2000 lb/ton = 0.71 lb/MMBtu < 6 lbs/MMBtu, therefore, boiler 01 is in compliance with the rule.

(2) Existing Dryer 04 - Pursuant to TV 055-6063-00008, issued on October 4, 2000 and 326 IAC 7-1, dryer 04 was limited to 0.5 pounds per million Btu of heat input when burning no. 2 fuel oil.

Using no. 2 fuel oil for fuel:
10.9 tons of SO2 (limit)/yr * yr/8760 hrs * hr/20 MMBtu *2000 lb/ton = 0.124 lb/MMBtu < 0.5 lbs/MMBtu, therefore, dryer 04 is in compliance with the rule.

(3) The proposed new Boilers, 05, 06, 07 and 08 are subject to 326 IAC 7-1, because each boiler has a PTE of 25 tons per year or more. This rule mandates a limit of 0.5 pounds per million Btu of heat input when burning no. 2 fuel oil.

Using no. 2 fuel oil for fuel:
25.45 tons of SO2 (limit)/yr * yr/8760 hrs * hr/50.2 MMBtu *2000 lb/ton = 0.12 lb/MMBtu < 0.5 lbs/MMBtu, therefore, each Boiler 05, 06 and 07 is in compliance with the rule.

Using no. 2 fuel oil for fuel:
17.1 tons of SO2 (limit)/yr * yr/8760 hrs * hr/33.746 MMBtu *2000 lb/ton = 0.12 lb/MMBtu < 0.5 lbs/MMBtu, therefore, Boiler 08 is in compliance with the rule.

(f) 326 IAC 6-3-2 (Particulate Emission Limitations)
Pursuant to 326 IAC 6-3-2(e), the PM emissions from dryer 04 shall not exceed 37.9 pounds per hour when operating at a process weight rate of 55,284 pounds per hour.

The pound per hour emission rate was established as E in the following formula:

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

$E = 4.10\ P^{0.67}$

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

The uncontrolled PM emission is at 1.3 ton/yr (0.29 pound/hour) < 37.9 pound/hour limit. Therefore, the dryer is in compliance with this rule even without the control device.

(g) 326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to TV 055-6063-00008, issued on October 4, 2000 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator of the cold cleaning facilities shall:

(1) Equip the cleaner with a cover;
(2) Equip the cleaner with a facility for draining cleaned parts;
(3) Close the degreaser cover whenever parts are not being handled in the cleaner;
(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
(5) Provide a permanent, conspicuous label summarizing the operation requirements;
(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a matter that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance determination requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.
If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

(a) Record keeping and reporting of the fuel usage from Boiler 01, Dryer 04, Boilers 05, 06, 07 and 08.

(b) No. 2 fuel oil and coal sampling to determine the percent sulfur content.

(c) Record keeping of the dry limestone/coal sulfur feed ratio injected into boiler 01.

(d) Daily visible emission notations of the boiler 01 when burning coal, boilers 05, 06, 07, and 08 when burning waste/on spec used oil and no. 2 fuel oil, and dryer 04 when burning no. 2 fuel oil.

(e) Pressure drop monitoring for baghouse used with boiler 01.

These compliance monitoring requirements are necessary to avoid the applicability of 326 IAC 2-2, PSD for the new boilers 05, 06, 07 and 08 and to maintain the minor PSD status of the source. This also serves as the parameters to monitor to determine compliance with 326 IAC 7-1 (Sulfur Emission Limitations).

Proposed Changes

The following changes have been made to the Part 70 Permit No.: T055-6360-00008, issued on October 4, 2000. Sections B and C have been modified as discussed below. Section D has been modified to incorporate Significant Source Modification 055-25477-00008. New language is in **bold** and language shown in ~~strikeout~~ has been deleted.

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Modeling Section, Office of Air Quality
100 North Senate Avenue
MC61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) To clarify the permit term and the term of the conditions, original Conditions B. 3 – Permit Term, and B.18 – Permit Renewal have been modified. Additionally, new Section B conditions, B.3 – Term of Conditions and B.13 – Prior Permits Superseded have been added. Condition B.1 Permit No Defense has been deleted from the permit. All subsequent conditions have been renumbered and the Table of Contents updated.

(c) IDEM has rearranged the permit conditions such that original Condition B.5 – Termination of Right to Operate is now Condition B.14.

(d) IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request records of preventive

maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of original Condition B.12, now B.10 – Preventive Maintenance Plan and has amended original Condition B.13, now B.11 – Emergency Provisions.

(e) For clarification purposes, original Condition B.21, now B.20 – Operational Flexibility has been revised.

(f) Revisions to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) became effective on June 12, 2002 and were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. Original Condition C.2, now C.1 – Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour has been revised to remove (a) which contained these requirements.

(g) The last sentence of original Condition C.5, now C.4 – Incineration, was deleted because the provisions of 326 IAC 9-1-2 are federally enforceable and are included in Indiana's State Implementation Plan (SIP).

(h) In order to avoid duplication of requirements which may be included in D sections, Condition C.7 – Operation of Equipment has been removed from the permit.

(i) IDEM has reconsidered the requirement to develop and follow a Compliance Monitoring - Failure to Take Response Steps (original Condition C.17). The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. Therefore, original Condition C.17 for the "Compliance Monitoring - Failure to Take Response Steps" has been replaced by Condition C.14 for the "Response to Excursions or Exceedances".

~~**SECTION B GENERAL CONDITIONS**~~

~~B.1 Permit No Defense [IC 13]~~

~~(a) 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 Part 70 permit under 326 IAC 2-7.~~

~~(b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."~~

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

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

~~B.3 Permit Term [326 IAC 2-7-5(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 2-7-7(a)]~~

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

~~B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]~~

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

~~B.6 Severability [326 IAC 2-7-5(5)]~~

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

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

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

~~B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(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 Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204~~

~~(b) The Permittee shall furnish to IDEM, OAQ within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.~~

~~(c) Upon request, the Permittee shall also furnish to IDEM, OAQ, 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 include a claim of confidentiality in accordance with 326 IAC 17. If requested by IDEM, OAQ, or the U.S. EPA, to furnish copies of requested records directly to U.S. EPA, then the Permittee must furnish such records directly to the U.S. EPA. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must include such a claim of confidentiality in accordance with 40 CFR 2, Subpart B.~~

~~B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]~~

~~(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:~~

~~(1) Enforcement action;~~

~~(2) Permit termination, revocation and reissuance, or modification; or~~

~~(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.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(c)]~~

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

~~(b) One (1) certification shall be included, on the attached Certification Form, with each submittal.~~

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

~~B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]~~

~~(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The 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 July 1 of each year to:~~

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

~~and~~

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

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

~~(c) The annual compliance certification report shall include the following:~~

~~(1) The 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 compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and~~

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

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

~~B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]~~

~~(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility:~~

~~(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;~~

~~(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;~~

~~(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 Quality~~
~~100 North Senate Avenue~~
~~MC 61-53 IGCN 1003~~
~~Indianapolis, Indiana 46204~~

~~(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan 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, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.~~

~~B.13 Emergency Provisions [326 IAC 2-7-16]~~

~~(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.~~

~~(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a 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 describe the following:~~

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

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

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

~~(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;~~

~~Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or~~

~~Telephone Number: 317-233-5674 (ask for Compliance Section)~~
~~Facsimile Number: 317-233-5967~~

~~(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 Quality~~
~~100 North Senate Avenue~~
~~MC 61-53 IGCN 1003~~
~~Indianapolis, Indiana 46204~~

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

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

~~(A) A description of the emergency;~~

~~(B) Any steps taken to mitigate the emissions; and~~

~~(C) Corrective actions taken.~~

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

~~(6) The Permittee immediately took all reasonable steps to correct the emergency.~~

~~(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.~~

~~(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) 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, OAQ may require that the Preventive Maintenance Plans required under 2-7-4(c)(10) be revised in response to an emergency.~~

~~(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 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 materials of substantial economic value.~~

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

~~B.14 Permit Shield [326 IAC 2-7-15]~~

~~(a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.~~

~~(b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:~~

~~(1) The applicable requirements are included and specifically identified in this permit; or~~

~~(2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.~~

~~(c) 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, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.~~

~~(d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.~~

~~(e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:~~

~~(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;~~

~~(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;~~

~~(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and~~

~~(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.~~

~~(f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).~~

~~(g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ has issued the modifications. [326 IAC 2-7-12(c)(7)]~~

~~(h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ has issued the modification. [2-7-12(b)(7)]~~

~~B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]~~

~~Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter~~

~~established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.~~

~~B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]~~

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

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

~~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.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]~~

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

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

~~(1) That this permit contains a material mistake.~~

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

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

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

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

~~B.18 Permit Renewal [326 IAC 2-7-4]~~

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

~~Request for renewal shall be submitted to:~~

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

~~(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

~~(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, OAQ on or before the date it is due. [326 IAC 2-5-3]~~

~~(2) If IDEM, OAQ, 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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.~~

~~(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]~~
~~If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.~~

~~(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]~~
~~If IDEM, OAQ fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.~~

~~B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]~~

~~(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.~~

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

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

~~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 2-7-11(c)(3)]~~

~~B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]~~

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

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

~~B.21 Operational Flexibility [326 IAC 2-7-20]~~

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

~~(1) The changes are not modifications under any provision of Title I of the Clean Air Act;~~

~~(2) Any approval required by 326 IAC 2-1.1 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 Quality~~
~~100 North Senate Avenue~~
~~Indianapolis, Indiana 46204~~

~~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 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.~~

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

~~(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:~~

~~(1) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).~~

~~(2) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:~~

~~(i) A brief description of the change within the source;~~

~~(ii) The date on which the change will occur;~~

~~(iii) Any change in emissions; and~~

~~(iv) 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(34).~~

~~B.22 Construction Permit Requirement [326 IAC 2] [326 IAC 2-7-10.5]~~

~~A modification, construction, or reconstruction shall be approved as if required by and in accordance with the applicable provisions of 326 IAC 2 and 326 IAC 2-7-10.5.~~

~~B.23 Inspection and Entry [326 IAC 2-7-6(2)]~~

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

~~(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;~~

~~(b) 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 2-7-6(6)]~~

~~B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]~~

~~(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.~~

~~(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:~~

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

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

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

~~B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]~~

~~(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year. In the event of a failure by IDEM to send a bill, a miscalculation of the fee amount by the Permittee shall not be the basis of an enforcement action. The amount of the final fee owed must be determined in accordance with 326 IAC 2-7-19(e) regardless of whether the Permittee paid with or without the bill.~~

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

~~(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.~~

~~SECTION C SOURCE OPERATION CONDITIONS~~

~~Entire Source~~

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

~~C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]~~

~~The total source potential to emit for SO2 is limited to less than 250 tons per year. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.~~

~~C.2 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]~~

~~Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

~~C.3 Opacity [326 IAC 5-1]~~

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

~~(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.~~

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

~~C.4 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.5 Incineration [326 IAC 4-2][326 IAC 9-1-2]~~

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

~~C.6 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.7 Operation of Equipment [326 IAC 2-7-6(6)]~~

~~Except as otherwise provided in this permit, 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]~~

~~The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.~~

~~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 Quality~~
~~100 North Senate Avenue~~
~~MC 61-52 IGCN 1003~~
~~Indianapolis, Indiana 46204~~

~~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 2-7-6(1)]~~

~~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 any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.~~

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

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

~~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, OAQ within forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, 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 2-7-5(1)] [326 IAC 2-7-6(1)]~~

~~C.11 Compliance Schedule [326 IAC 2-7-6(3)]~~

~~(a) With its permit application, the Permittee:~~

~~(1) Has certified that all facilities at this source are in compliance with all applicable requirements; and~~

~~(2) Has submitted a statement that the Permittee will continue to comply with such requirements.~~

~~(b) The Permittee will comply with such applicable requirements that become effective during the term of this permit.~~

~~C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]~~

~~Compliance with applicable requirements shall be documented as required by this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any newly required monitoring, no more than ninety (90) days after receipt of this permit or by a later date specified by an applicable requirement. If a previous or existing approval or applicable requirement mandates compliance monitoring, the source will continue or initiate such monitoring. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend the compliance schedule for newly required monitoring an additional ninety (90) days provided the Permittee notifies:~~

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

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

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

~~C.13 Maintenance of Monitoring Equipment [326 IAC 2-7-5(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.14 Monitoring Methods [326 IAC 3]~~

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

~~C.15 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 (±2%) of full scale reading.~~

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

~~C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]~~

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

~~(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.~~

~~(b) These ERPs shall be submitted for approval to:~~

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

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

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

~~(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.~~

~~(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.~~

~~(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.~~

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

~~C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6] [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, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. 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 2-7-5][326 IAC 2-7-6]~~

~~(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the corrective actions are being implemented.~~

~~(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline. 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.~~

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

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

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

~~(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:~~

~~(1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);~~

~~(2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.~~

~~(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:~~

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

~~(c) 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, OAQ on or before the date it is due.~~

~~C.20 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]~~

~~(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 stated in (a) above.~~

~~C.21 General Record Keeping Requirements [326 IAC 2-7-5(3][326 IAC 2-7-6]~~

~~(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, OAQ representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available within a reasonal time. 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 2-7-5(3)(C)][326 IAC 2-1.1-11]~~

~~(a) To affirm that the source has met all the compliance monitoring 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. The Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:~~

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

~~(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.~~

~~(d) Unless otherwise specified in this permit, any report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(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.~~

~~**Stratospheric Ozone Protection**~~

~~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.~~

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

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

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

(a) This permit, T055-20227-00008, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

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

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

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

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

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

and

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

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

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

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

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

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

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

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

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

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

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

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

(a) All terms and conditions of permits established prior to 123-50001-00032 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

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

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

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

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

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

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

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

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

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

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

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

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

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

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

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

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

of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

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

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

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

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

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

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

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

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

(a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 ora permit modification under326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The

provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

(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).**

required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

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

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

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If

due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

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

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

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

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

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

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

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

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

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

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

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

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

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

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

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

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

Pursuant to 326 IAC2-6-3(b)(3), that starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

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

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

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

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

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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

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

(a) One (1) fluidized, coal-fired boiler, identified as 01, constructed in 1981, with a heat input capacity of 50 million Btu per hour, using natural gas as a backup fuel, dry limestone injection for sulfur dioxide (SO_2) control, a cyclone centrifugal separator and baghouse for particulate matter control, and exhausting to stack A.

~~(b) One (1) traveling grate, coal-fired boiler, identified as 02, constructed in 1989, with a heat input capacity of 50 million Btu per hour, using a cyclone centrifugal separator for particulate matter control, and exhausting to stack B;~~

(~~c~~ **b**) One (1) natural gas-fired dryer, identified as 04, constructed in 1994, with a heat input capacity of 20 million Btu per hour, using No. 2 fuel oil as a backup fuel, a cyclone

centrifugal separator and a wet scrubber for particulate matter control, and exhausting to stack D.

(~~d~~) ~~One (1) natural gas-fired boiler, identified as 03, constructed in 1989, with a heat input capacity of 33.746 million Btu per hour, and exhausting to stack C; and~~

(c) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

(~~e~~ **d**) Material storage and handling facilities including:

(1) seven (7) enclosed tanks totalling 420 tons of capacity, used for storing tallow/grease, with enclosed piping for material handling,

(2) three (3) 250 ton capacity enclosed silos, used for storing meat meal, feather meal, and poultry meal, with three (3) screw conveyors for material handling, and

(3) one (1) 30 ton capacity enclosed silo, used for storing blood meal, with one (1) screw conveyor for material handling.

SECTION D.1 FACILITY OPER ATION CONDITIONS

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

(a) One (1) fluidized, coal-fired boiler, identified as 01, constructed in 1981, with a heat input capacity of 50 million Btu per hour, using natural gas as a backup fuel, dry limestone injection for sulfur dioxide (SO_2) control, a cyclone centrifugal separator and baghouse for particulate matter control, and exhausting to stack A.

~~(b) One (1) traveling grate, coal-fired boiler, identified as 02, constructed in 1989, with a heat input capacity of 50 million Btu per hour, using a cyclone centrifugal separator for particulate matter control, and exhausting to stack B;~~

(~~c~~ **b**) One (1) natural gas-fired dryer, identified as 04, constructed in 1994, with a heat input capacity of 20 million Btu per hour, using No. 2 fuel oil as a backup fuel, a cyclone centrifugal separator and a wet scrubber for particulate matter control, and exhausting to stack D.

(~~d~~) ~~One (1) natural gas-fired boiler, identified as 03, constructed in 1989, with a heat input capacity of 33.746 million Btu per hour, and exhausting to stack C.~~

(c) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

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

Condition D.1.1 and other conditions pertaining to HAPs limitations in the permit have been deleted from the permit because the removal of the 50 MMBtu/hr coal-fired Boiler 02 made the source a natural minor for HAPs emissions:

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

~~D.1.1 Hazardous Air Pollutants (HAP)~~

~~(a) In order to render the requirements of 326 IAC 20-95-1 and 40 CFR 63, Subpart DDDDD not applicable: hydrogen chloride (HCl) emissions from boilers 01 and 02 shall not exceed 9.9 tons total per twelve (12) consecutive month period with compliance determined at the end of each month.~~

~~(b) Combined with the HCl, individual HAP, and combined HAP emissions from other units, the individual HAP emissions from the entire source are limited to less than ten (10) tons per year, and combined HAP emissions are limited to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 20-95-1 (NESHAP) and 40 CFR 63, Subpart DDDDD are not applicable.~~

D.1.~~2~~**1** Sulfur Dioxide (SO_2) [326 IAC 7-1.1-~~1~~**2**]

Pursuant to 326 IAC 7-1.1-~~1~~**2**] (SO_2 Emissions Limitations) the SO_2 emissions when combusting coal from boiler 01 ~~and boiler 02~~ shall not exceed six (6.0) pounds per MMBtu heat input. The SO_2 emissions when combusting No. 2 fuel oil from dryer 04**, boiler 05, boiler 06, boiler 07 and 08** shall each not exceed five-tenths (0.5) pounds per MMBtu heat input.

Condition D.1.3, now D.1.2 which was a PSD limit for an existing minor source has been revised to the following sourcewide limit:

D.1.~~3~~**2** PSD Minor Source Limit ~~0Status~~ [326 IAC 2-2] ~~[40 CFR 52.21]~~

~~Pursuant to OP 28-12-93-0051:~~

~~(a) The sulfur dioxide (SO_2) emissions from boiler 02 shall be limited to 20.5 tons per month. For a coal usage rate of 750 tons per month, this limit equates to 2.4 pounds of SO_2 per million Btu of heat input.~~

~~(b) Dryer 04 shall be limited to 1,083,333 gallons of No.2 distillate fuel oil per 12 month period, rolled on a monthly basis.~~

~~(c) The total source potential to emit for SO2 and for PM is limited to less than 250 tons per year.~~

~~These limitations shall render the PSD rules under 326 IAC 2-2 and 40 CFR 52.21 not applicable.~~

(a) The sourcewide input of no. 2 fuel oil to the five (5) boilers and one (1) dryer combusting this fuel shall be limited to 6,343,000 gallons (6,343 kgal) per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The sulfur content of the no. 2 fuel oil usage shall be limited to a maximum of 0.5% based on a calendar month average.

(c) The coal, natural gas, processed grease, and waste/spec used oil usage from the five (5) boilers and one (1) dryer shall be counted toward the no. 2 fuel usage and shall have the following fuel equivalency to 1,000 gallons (1 kgal) of No. 2 fuel oil:

(1) 1,070 gallons (1.07 kgal) of waste oil/spec used oil burned.

(2) 130.8 million cubic feet (130.8 MMCF) of natural gas burned.

(3) 1,938,000 gallons (1,938 kgal) of processed grease burned.

(4) 4.22 tons of coal burned.

(d) The sulfur content of the coal usage shall be limited to a maximum of 2.2 % based on a calendar month average.

(e) Dry limestone shall be injected to boiler 01 when operating, at a ratio (dry limestone/coal sulfur content) established during performance test.

Compliance with this condition shall limit the SO2 emissions below 250 tons per year, thus rendering 326 IAC 2-2, Prevention of Significant Deterioration not applicable.

D.1.~~4~~ **3** Particulate Matter (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from boiler 01 shall be limited to 0.60 pounds per million British thermal unit (lbs/MMBtu). These limits were established by the following equation:

$$\mathbf{Pt = \frac{C * a * h}{76.5 * Q^{0.75} * N^{0.25}}}$$

Where:

C = Maximum ground level concentration with respect to distance from the point source at the "critical wind speed for level terrain. This shall equal to 50 µg.
Pt = Pounds of particulate matter emitted per million Btu per heat input (lb/MMBtu).
Q = Total source maximum operating capacity rating in MMBtu/hr heat input.
N = Number of stacks in fuel burning operation.
a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than 1,000 MMBtu/hr.
pa = the actual controlled emission rate in lb/MMBtu using the emission factor or stack test data.
h = Stack height in feet.

D.1.~~5~~ **4** Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from ~~boiler 02 and boiler 03 each shall be limited to 0.305 lb/MMBtu.~~ **boiler 05, boiler 06, boiler 07 and boiler 08 shall each be limited to 0.26 lb/MMBtu**. These limits were established by the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where Pt = pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and
Q = total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.

Condition D.1.6, now D.1.5 has been revised to reflect the new 326 IAC 6-3 rule:

D.1.~~6~~**5** Particulate Matter (PM) [326 IAC 6-3-2(~~c~~ **e**)]

Pursuant to 326 IAC 6-3-2(c), the PM **emissions** from dryer 04 shall not exceed 37.9 pounds per hour when operating at a process weight rate of 55,284 pounds per hour.

Interpolation of the data for the process weight rate from one hundred (100) pounds per hour up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

Due to the safety concern raised by the source because of the stack testing of boiler 01 scheduled at the same time as the construction of the boiler room for boilers 05, 06 and 07, IDEM agreed to delay the stack testing of boiler 01 from 180 days to 18 months.

Compliance Determination Requirements

D.1.~~8~~**7** Testing Requirements [326 IAC 2-7-6(1),(6)]

~~The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the SO_2 and PM limits specified in Conditions D.1.1, D.1.2, D.1.3, D.1.4, and D.1.5 shall be determined by performance tests conducted in accordance with Section C - Performance Testing.~~

(a) No later than 18 months after the issuance of this Part 70 Permit Renewal T055-20227-00008, the Permittee shall conduct control efficiency testing on the dry limestone injection used to control SO_2 emissions from boiler 01. The amount of dry limestone injected per ton of coal burned (based on the worst case sulfur content of 2.2 percent) shall be established based on a minimum control efficiency of 78 percent, utilizing methods as approved by the Commissioner and 326 IAC 3-6-3 and Section C - Performance Testing. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.

(b) No later than 18 months after the issuance of this Part 70 Permit Renewal T055-20227-00008, the Permittee shall conduct efficiency testing on boiler 01 baghouse, utilizing methods as approved by the Commissioner and 326 IAC 3-6-3 and Section C - Performance Testing. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.

~~D.1.9 HAP Emissions~~

~~Compliance with the HAP limits in Condition D.1.1 shall be demonstrated using the following equations.~~

~~(a) Using the measured chlorine concentration (ppm), the Permittee shall calculate the 90th percentile confidence level pollutant concentration for each boiler and then use this concentration to determine the HCl emissions. This concentration value is calculated as follows for each boiler:~~

~~P_{90} = mean + (SD * t)~~

~~Where~~

~~P_{90} = 90th percentile confidence level pollutant concentration, in ppm~~
~~Mean = Arithmetic average of the fuel pollutant concentration in the fuel samples, in ppm~~
~~SD = Standard deviation of the pollutant concentration in the fuel samples, in ppm~~
~~t = t distribution critical value for 90th percentile (0.1) probability for the appropriate degrees of freedom (number of samples minus one) as obtained from a Distribution Critical Value Table.~~

~~(b) The Hydrogen Chloride emissions shall be calculated according to the following equation:~~

~~$E_{HCl} = (1.028 * P_{90} * Q_{Coal})/10^6$..... Equation (1)~~

~~Where~~

~~E_{HCl} = Emissions of Hydrogen Chloride in tons per year~~
~~1.028 = Molecular weight ratio of Hydrogen Chloride to Chlorine~~

~~P_{90} = Chlorine content in coal, dry basis (ppm), 90th percentile confidence level as calculated in Condition D.1.9(a)~~
~~Q_{Coal} = Coal Consumption in tons per year~~

~~To demonstrate compliance with the above emission limit, the Permittee shall calculate HCl emissions based on the type of coal and coal consumption.~~

~~Compliance with this HAP limit, in conjunction with the potential HAP emissions from the Boiler 03 and Dryer 04, will limit the source wide single HAP and total HAP emissions to less than 10 and 25 tons per twelve (12) consecutive month period, respectively. Therefore, the requirements of the Clean Air Act Section 112(j) do not apply to this source.~~

~~D.1.10 Hydrogen Chloride Emissions and Chlorine Content~~

~~(a) The coal consumption (Q_{Coal}) in Condition D.1.9 shall be determined each month based on the actual coal burned in Boilers 01 and 02.~~

~~(b) Coal sampling for determining the Cl concentration identified in Condition D.1.9 (b) shall be performed at least once per month and whenever new coal (including either a different type of coal or coal obtained from a different supplier) is bunkered or burned, using one of the procedures specified in Condition D.1.10(c) or as provided by the fuel supplier in accordance with Condition D.1.10(d).~~

~~(c) The samples shall be analyzed for hydrogen chloride and moisture using one of the following methods:~~

~~(1) ASTM D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry.~~

~~(2) ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.~~

~~(3) ASTM D3302-02a Standard Test Method for Total Moisture in Coal.~~

~~(d) The fuel sampling and analysis requirement in this section may also be conducted by the fuel supplier using one of the methods in D.1.10(c).~~

Condition D.1.11, now D.1.8 has been revised to match the requirement in Condition D.1.2

D.1.~~11~~ **8**Sulfur Dioxide Emissions and Sulfur Content

Compliance when using fuel oil No. 2 ~~in dryer 04~~ **in Condition D.1.2** shall be determined utilizing one of the following options.

(a) Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Limitations), sulfur dioxide emissions from the combustion of distillate #2 fuel oil shall be limited to 0.5 pounds per million British thermal units of heat input. For the purpose of determining compliance, this limitation shall be considered equivalent to a sulfur content of five tenths of a percent (0.5 %) by weight or less in the distillate fuel oil. Compliance with the limit contained in Condition**s** D.1.1 **and D.1.2** may be determined by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or

(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; or

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the **five (5) boilers 01, 05, 06, 07, 08** ~~20 million British thermal units per hour (mmBtu/hr)~~ **and** dryer 04, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

~~D.1.12~~ **D.1.9** Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6] [326 IAC 7-1.1] [326 IAC 7-2-1]

The Permittee shall demonstrate compliance of boiler 01 with Condition**s** D.1.1 **and D.1.2** ~~boiler 02 with Condition D.1.2~~ utilizing one of the following options:

(a) Providing vendor analysis of coal delivered, if accompanied by a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(3). The certification shall include:

(1) The name of the coal supplier; and

(2) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the coal was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected); and

(3) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and

(4) The methods used to determine the properties of the coal; or

(b) Sampling and analyzing the coal by using one of the following procedures:

(1) Minimum Coal Sampling Requirements and Analysis Methods:

(A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;

(B) Coal shall be sampled at least one (1) time per day;

(C) Minimum sample size shall be five hundred (500) grams;

(D) Samples shall be composited and analyzed at the end of each calendar quarter;

(E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), (e); or

(2) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or

(c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) or (b) above. [326 IAC 7-2-1(b)]

A determination of noncompliance pursuant to any of the methods specified in (a), (b), or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

Based on the PM uncontrolled PTE calculations dryer emits less than what is allowed under 326 IAC 6-3-2. Therefore, the dryer's wet scrubber is not necessary to be operating at all times.

~~D.1.13~~ **D.1.10** Particulate Matter (PM) **Controls and Sulfur Dioxide (SO_2) Control**

The cyclone centrifugal separators **and baghouse** associated with boiler~~s~~ 01~~, 02~~**, the cyclone centrifugal separator associated with dryer 04** ~~and dryer 04, the baghouse associated with boiler 01~~, ~~the dry limestone injection system associated with boiler 01~~, ~~and the wet scrubber for PM control associated with dryer 04,~~ **and the baghouse and dry limestone injection system associated with boiler 01 for PM and SO_2 control**, **respectively** shall be in operation at all times when boiler~~s~~, 01~~, 02,~~ and dryer 04 are in operation and exhausting to the outside atmosphere.

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

~~D.1.14~~ **D.1.11** Visible Emissions Notations

(a) Daily visible emission notations of the boilers **01, 05, 06, 07, 08** and dryer~~s~~ **04** stack exhaust shall be performed during normal daylight operations when **boiler 01 is** burning coal, **boilers 05, 06, 07 and 08 are burning waste/on spec used oil and no. 2 fuel oil, and dryer 04 when burning** ~~or~~ no. 2 fuel oil and when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.~~ **If abnormal emissions are observed , the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

D.1.~~15~~ **12** Parametric Monitoring

(a) The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the boiler 01, at least once weekly when boiler 01 is in operation and venting to the atmosphere. **When for any one reading**, ~~Unless operated under conditions for which the Compliance Response Plan specifies otherwise~~, the pressure drop across the baghouse **is outside the normal range** ~~shall be maintained within the range~~ of 2.0 and 8.0 inches of water or a range established during the latest stack test. **The Permittee shall also take response steps in accordance with Section C - Response to Excursions or Exceedances**. **A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.** ~~The 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.~~

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

(c) The coal delivery system which supplies fuel to the boiler 01 is electrically interlocked with the dry limestone delivery system. When coal is fed into the boiler (on a demand-feed basis), the dry limestone delivery system is automatically activated to feed a preselected ratio. The electrical interlock of this system is set so the delivery of coal cannot occur without delivery of dry limestone. The Permittee shall perform monthly trip checks of the switches monitoring the coal delivery/limestone delivery interlock. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the interlock is not operating correctly.

D.1.~~16~~ **13**Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

~~(a) The affected compartments shall be shut down immediately until the failed units have been repaired or replaced. 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. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

~~(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit~~s~~ and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.~~17~~**14**Control Device Inspections [326 IAC 2-7-1(21)(G)(xxix)]

An external inspection shall be performed each week of all the cyclones controlling ~~the~~ boiler~~s~~ 01 ~~and 02~~ when venting to the atmosphere. Inspections are not required when a cyclone is venting to the indoors.

D.1.15 Compliance Assurance Monitoring (CAM) [40 CFR Part 64]

(a) Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the baghouse controlling the PM emissions from boiler 01 when burning coal for fuel:

(1) Monitoring Approach –

Boiler 01 (PM CAM)			
PARAMETER	**INDICATOR NO. 1**	**INDICATOR NO. 2**	**INDICATOR NO. 3**
I. Indicator Measurement Approach	**PM (concentration)**	**Opacity**	**Bag Condition**
	U.S. EPA Method 5, for PM or other Methods approved by the Commissioner – Baghouse	**Method 9 visual observations.**	**Visual inspection.**
II. Indicator Range	**PM emission limit of 0.6 lb/MMBtu**	**An excursion is defined as an opacity measurement exceeding 20% on a 6-minute average.**	**An excursion is defined as failure to perform the monthly inspection.**
III. Performance Criteria			
A. Data Representativeness	**U.S. EPA Method 5, for PM or other Methods approved by the Commissioner**	**Procedures addressed in Method 9**	**Baghouse inspected visually for bag leaks.**
B. Verification of Operational Status	**Fans amps and damper position.**	**NA**	**NA**
C. QA/QC Practices and Criteria	**U.S. EPA Method 5, for PM or other Methods approved by the Commissioner**	**Use of a certified visible emission observer.**	**Trained personnel perform inspections and maintenance.**
D. Monitoring Frequency	**Once every 5 years.**	**Daily (when boiler 01 is operating and burning coal unless inclement weather).**	**Bi-Annual**
IV. Data Collection Procedures	**U.S. EPA Method 5, for PM or other Methods approved by the Commissioner**	**Daily visual observations of opacity are recorded on V.E. Form.**	**Results of inspections and maintenance activities performed are recorded in baghouse maintenance log.**
Averaging Period	**Average of 3 test runs each 1 hour long**	**Six-minute average.**	**NA**

(b) Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the dry limestone injection control system controlling the SO_2 emissions from boiler 01 when burning coal for fuel:

(1) Monitoring Approach –

Boiler 01 (SO2 CAM)	
PARAMETER	**INDICATOR NO. 1**
I. Indicator Measurement Approach	**Sulfur content of coal,** **SO2 emissions in lb/MMBtu** **Dry limestone/coal sulfur content feed ratio, and** **Coal usage (counted toward the no. 2 fuel oil limit sourcewide)**

Boiler 01 (SO2 CAM)	
PARAMETER	**INDICATOR NO. 1**
II. Indicator Range	**Sulfur content of coal at a maximum of 2.2 % based on a calendar month average** **SO2 emissions of 6 lbs/MMBtu** **Dry limestone/coal sulfur content feed ratio determined during performance test** **Coal usage (counted toward the no. 2 fuel oil limit of 6,343 kgallons/yr sourcewide)**
III. Performance Criteria	
A. Data Representativeness	**ASTM D3177-89 for coal sampling or other Methods approved by the Commissioner** **Method 6 for SO2 or other Methods approved by the Commissioner**
B. Verification of Operational Status	**Dry limestone injection/coal delivery interlock system trip checks/inspections** **Inspection of the continuous dry limestone injection system to assure that limestone is always free-flowing** **Records of sulfur content of the coal and coal monthly usage**
C. QA/QC Practices and Criteria	**Routine inspection of the coal sampling system**
D. Monitoring Frequency	**Monthly recording of sulfur content for coal sampling** **Dry limestone/coal sulfur content feed ratio** **Once daily inspection of the continuous dry limestone injection system to verify that lime is free flowing**
IV. Data Collection Procedures	**ASTM D3177-89 for coal sampling or other Methods approved by the Commissioner** **Method 6 for SO2 or other Methods approved by the Commissioner** **Results of inspection on the dry limestone injection/coal delivery interlock system**
Averaging Period	**Coal composite sample taken once every 24 hour period and analyzed monthly.** **Sulfur content of coal based on a calendar month average** **SO2 emissions based on a calendar month average** **Monthly usage of coal** **Method 6 - every 5 years**

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

D.1.~~18~~ **16** Record Keeping Requirements

(a) To document compliance with Conditions **D.1.1 and** D.1.2 ~~and D.1.8~~ **the** Permittee shall maintain records for dryer 04**, boilers 01, 05, 06, 07 and 08** in accordance with (1) through (~~3~~ **8**) below.

(1) Calendar dates covered in the compliance determination period;

(2) The ~~A~~ **a**ctual No. 2 distillate fuel oil usage **for each month from all five (5) boilers and dryer** ~~since last compliance determination period;~~

(3) **The actual sulfur content of the no. 2 fuel oil usage on a thirty (30) day average,**

If the fuel supplier certification is used to demonstrate compliance the following shall be maintained:

(A) Fuel supplier certifications;

(B) 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

(C) The name of the fuel supplier.

(4) The actual natural gas usage from boilers 01, 05, 06, 07, 08 and dryer 04 for each month and its equivalent No. 2 distillate fuel oil.

(5) The actual processed grease usage from boilers 05, 06, 07 and 08 for each month and its equivalent No. 2 distillate fuel oil.

(6) The actual waste/on spec used oil usage from boilers 05, 06, 07 and 08 for each month and its equivalent No. 2 distillate 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.~~

~~(b) To document compliance with Condition D.1.1 and D.1.2, the Permittee shall maintain records for boiler 01 and boiler 02 in accordance with (1) through (7) below. Records maintained for (1) through (4) and (7) shall be taken monthly and shall be complete and sufficient to establish compliance with the emission limits established in D.1.1. Records maintained for (6) shall be taken daily and shall be complete and sufficient to establish compliance with the emission limits established in D.1.1.~~

~~(1) Calendar dates covered in the compliance determination period; and~~

(~~2~~ **7**) **The** ~~A~~ **a**ctual coal usage from boiler 01, ~~since last compliance determination period; and~~ **for each month and its equivalent No. 2 distillate fuel oil.**

(A) The actual ~~Average~~ sulfur content of the coal usage **on a calendar month average,** and heat content of coal; and

~~(3)~~ **(B) Calendar month** average sulfur dioxide emission rates; and

~~(4)~~ **(C)** Vendor analysis of coal and coal supplier certification, if the vendor analysis is used to determine compliance.

(~~5~~**8**) The dry limestone/coal **sulfur content** feed ratio of the dry limestone injection system.

(b) **To document compliance with Condition D.1.12(c), the Permittee must maintain records** ~~A log~~ of the dry limestone injection/coal delivery interlock monthly trip checks.

~~(c) To document compliance with Condition D.1.9, the Permittee shall maintain records in accordance with (1) and (4) below. Records maintained for (1) and (4) shall be sufficient to establish a 12 consecutive month annual emissions rate and shall be complete and sufficient to demonstrate compliance with the HAP limits establish in Condition D.1.1 and D.1.9.~~

~~(1) Actual coal usage since last compliance determination period and records of calculations per Condition D.1.9.~~

~~(2) Chlorine content and moisture content in the coal.~~

~~(3) Records of coal sample performed in accordance with Condition D.1.10.~~

~~(4) Records of emission rate calculations specified in Condition D.1.9.~~

(~~d~~)**(c)** To document compliance with Condition ~~D.1.14~~,**D.1.11**, the Permittee shall maintain records of daily visible emission notations of the boilers stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, ~~(e.g. the process did not run that day).~~ **(e.g. the boiler did not burn coal, no.2 fuel oil or waste oil that day).**

~~(e) Pursuant to 40 CFR 60.40c, the Permittee shall record and maintain records of the amounts of fuel combusted during each day for a period of two years following the date of such record for boiler 03.~~

(d) **To document compliance with Condition D.1.15(a) the Permittee shall maintain records of baghouse inspections. These records shall include as a minimum, dates, initials of the person performing the inspections, results, and corrective actions taken in response to excursions as required by the PM CAM for boiler 01.**

(e) **To document compliance with Condition D.1.15(b) the Permittee shall maintain records of the continuous dry limestone injection system inspection. These records shall include as a minimum, dates, initials of the person performing the inspections, results, and corrective actions taken in response to excursions as required by the SO_2 CAM for boiler 01 (e.g. if limestone is found not to be free flowing).**

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

D.1.~~19~~ **17** Reporting Requirements

(a) A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

(b) An annual certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the Natural Gas Fired Boiler Certification form located at the end of this permit, or its equivalent, no later than July 1 of each year for the boilers 01, **05, 06, 07 and 08** ~~and 03~~ and dryer 04.

SECTION E.1 FACILITY OPER ATION CONDITIONS

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

(c) Four (4) boilers, identified as 05, 06, 07, and 08, approved for construction in 2008, each is capable of burning natural gas, processed grease, fuel oil no. 2, and waste/spec used oil. Each boiler 05, 06, and 07 has a heat input capacity of 50.2 million British thermal units per hour (MMBtu/hr), exhausting to stacks H, I, and J respectively, and boiler 08 has a heat input capacity of 33.746 MMBtu/hr, exhausting to stack K. Boiler 08 will replace existing 33.746 MMBtu/hr boiler, identified as 03.

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

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

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

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

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

and

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

E.1.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR Part 60, Subpart Dc] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of Standards of for Small Industrial-Commercial-Institutional Steam Generating Units which are incorporated by reference as 326 IAC 12 as specified as follows:

40 CFR 60.40c
40 CFR 60.41c
40 CFR 60.42c(d), (h)(1), (i)
40 CFR 60.43c(c), (d), (e)(1) or (2)
40 CFR 60.44c(g), (h)
40 CFR 60.45c(a), (b)
40 CFR 60.46c(e)
40 CFR 60.47c(f)
40 CFR 60.48c(a), (c), (d), (e)(1), (2), (3), (11), (f)(1), (g)(1), (2), (i), (j)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
Part 70 Quarterly Report

Page 1 of 2
This form consists of 2 pages

Source Name: Griffin Industries
Source Address: Route 1 Box 112, Newberry, IN 47449
Mailing Address: Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-20227-00008
Facility: Source-wide emissions
Parameter: SO_2 emissions
Limit: 6,343,000 gallons (6,343 kgal) no. 2 fuel oil

The sulfur content of the no. 2 fuel oil usage shall be limited to a maximum of 0.5% based on a calendar month average.

The coal, natural gas, processed grease, and waste/spec used oil usage from the five (5) boilers and one (1) dryer shall be counted toward the no. 2 fuel usage and shall have following fuel equivalency to 1,000 gallons (1 kgal) of No. 2 fuel oil:

(1) 1,070 gallons (1.07 kgal) of waste oil/spec used oil burned.

(2) 130.8 million cubic feet (130.8 MMCF) of natural gas burned.

(3) 1,938,000 gallons (1,938 kgal) of processed grease burned.

(4) 4.22 tons of coal burned.

The sulfur content of the coal usage shall be limited to a maximum of 2.2 % based on a calendar month average, calculated during the reporting period.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
Part 70 Quarterly Report

Page 2 of 2

Source Name: Griffin Industries
Source Address: Route 1 Box 112, Newberry, IN 47449
Mailing Address: Route 1 Box 112, Newberry, IN 47449
Part 70 Permit No.: T 055-20227-00008
Facility: Source-wide emissions
Parameter: SO_2 emissions
Limit: 6,343,000 gallons (6,343 kgal) no. 2 fuel oil
QUARTER: _____ **YEAR:**_____

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Month	Fuel Type	Other Type of Fuel Usage This Month (gal, MMCF, or ton)	% Average Sulfur Content if applicable This Month	No. 2 Fuel Oil Equivalent (gallons) This Month	Other Type of Fuel Usage Previous 11 Months (gal, MMCF, or ton)	No. 2 Fuel Oil Equivalent (gallons) Previous 11 Months	Other Type of Fuel Usage12 Month Total (gal, MMCF, or ton)	No. 2 Fuel Oil Equivalent (gallons) 12 Month Total

☐ **No deviation occurred in this quarter.**

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

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

Conclusion and Recommendation

The construction and operation of this source shall be subject to the conditions of the attached Significant Source Modification 055-25477-00008 and Part 70 Renewal No. 055-20227-00008. The staff recommend to the Commissioner that this source modification and Part 70 Renewal/permit modification be approved.

	Uncontrolled PTE (tpy)						
Emission Units	**NOx**	**CO**	**PM**	**PM10**	**SO2**	**VOC**	**HAPs**
New Boilers 05, 06 and 07 Fuel Combustion (Combined PTE)							
Natural Gas	66.0	**55.4**	1.3	5.0	0.4	3.6	**1.24**
Grease	104.9	14.5	6.6	6.6	0.2	0.0	0.0
No. 2 Fuel Oil	**113.1**	23.6	9.4	15.5	**369.9**	0.9	0.0
Waste/On Spec Used Oil	90.2	23.7	**170.1**	**135.5**	348.8	**4.7**	1.04
Worst Case PTE	**113.10**	**55.40**	**170.10**	**135.50**	**369.90**	**4.70**	**1.24**
New Boiler 08							
Natural Gas	14.80	**12.40**	0.30	1.10	0.10	0.80	**0.28**
Grease	23.50	3.30	1.50	1.50	0.00	0.00	0.00
No. 2 Fuel Oil	**25.30**	5.30	2.10	3.50	**82.90**	0.20	0.007
Waste/On Spec Used Oil	20.20	5.30	**38.10**	**30.40**	78.20	**1.10**	0.23
Worst Case PTE	**25.30**	**12.40**	**38.10**	**30.40**	**82.90**	**1.10**	**0.28**
Existing Boilers:							
Boiler 01							
Coal	**63.20**	**151.60**	**135.10**	**50.90**	**704.20**	0.40	**3.11**
Natural Gas	21.90	18.40	0.40	1.70	0.10	**1.20**	0.413
Worst Case PTE	**63.20**	**151.60**	**135.10**	**50.90**	**704.20**	**1.20**	**3.110**
Dryer 04							
Natural Gas	8.8	**7.4**	0.2	0.7	0.1	**0.5**	**0.165**
No. 2 Fuel oil	**15**	3.1	**1.3**	**2.1**	**49.1**	0.1	0.004
Worst Case PTE	**15**	**7.4**	**1.3**	**2.1**	**49.1**	**0.5**	**0.165**
TOTAL	**216.60**	**226.80**	**344.60**	**218.90**	**1206.10**	**7.50**	**4.79**

	Total Controlled /Limited PTE (tpy)						
Emission Units	**NOx**	**CO**	**PM**	**PM10**	**SO2**	**VOC**	**HAPs**
New Boilers 05, 06 and 07 Fuel Combustion							
Natural Gas	13.6	**11.4**	0.3	1.0	0.1	0.7	**0.3**
Grease	21.7	3.0	1.4	1.4	0.0	0.0	0.0
No. 2 Fuel Oil	**23.3**	4.9	1.9	3.2	**76.4**	0.2	0.0
Waste/On Spec Used Oil	18.6	4.9	**35.1**	**28.0**	72.0	**1.0**	0.2
Worst Case PTE	**23.3**	**11.4**	**35.1**	**27.97**	**76.37**	**1.0**	**0.3**
New Boiler 08							
Natural Gas	3.1	**2.6**	0.1	0.2	0.0	0.2	0.1
Grease	4.9	0.7	0.3	0.3	0.0	0.0	0.0
No. 2 Fuel Oil	**5.2**	1.1	0.4	0.7	**17.1**	0.0	0.0
Waste/On Spec Used Oil	4.2	1.1	**7.9**	**6.3**	16.1	**0.2**	0.0
Worst Case PTE	**5.2**	**2.6**	**7.9**	**6.3**	**17.1**	**0.2**	**0.1**
Existing Boilers:							
Boiler 01							
Coal	**13.0**	**31.3**	**27.9**	**10.5**	**145.4**	0.1	**0.6**
Natural Gas	4.5	3.8	0.1	0.4	0.0	**0.2**	0.1
Worst Case PTE	**13.0**	**31.3**	**27.9**	**10.5**	**145.4**	**0.2**	**0.6**
Dryer 04							
Natural Gas	1.8	**1.5**	0.0	0.1	0.0	**0.1**	0.0
No. 2 Fuel oil	**3.1**	0.6	**0.3**	**0.4**	**10.1**	0.0	0.0
Worst Case PTE	**3.1**	**1.5**	**0.3**	**0.4**	**10.1**	**0.1**	
TOTAL	**44.7**	**46.8**	**71.1**	**45.2**	**249.0**	**1.5**	**1.0**

Note:
Entries that are bolded are the worst case fuel.
Limiting the SO2 through fuel usage will also limit all pollutants. See below methodology.
Individual SO2 limit for Boilers 05, 06 and 07 = 25.45 tons/yr

Methodology:
Example : Controlled/Limited PTE = Boiler uncontrolled PTE, 66 t/y /total sourcewide SO2 PTE, 1206.10 t/y * SO2 limit, 249 t/y
PTE Determination = Add worst case fuel PTE from each emission unit.

Appendix A: Emissions Calculations
Boiler 01 (Coal Combustion)

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Heat Content of Coal Btu/lb of Coal	Potential Throughput tons/year	Weight % Sulfur in Fuel
50	13,000	16,846	S = 2.2 %
boiler 01		5958	

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/ton	16.0	6.04	83.6 *(38S)*	7.5	0.05	18.00
Potential Emission in tons/yr	135.1	50.9	704.2	63.2	0.4	151.6
With PM control: 85.00% efficiency	20.3	7.6				
SO2 Control (limestone injection) 78% efficiency			154.9			
Potential Emission in lbs/MMBtu	0.617		**3.215**			
With PM control: 85.00% efficiency	**0.093**					

Methodology

*The PM emission factor is filterable PM only. The PM10 emission factor is filterable and condensable PM10 combined.
VOC emission factor is from Table 1.1-19 (Total non-methane organic carbon).
Potential Throughput (tons/year) = Heat Input Capacity (MMBtu/hr) x 10^6 Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x 8,760 hrs/yr
Emission Factors from AP-42, Chapter 1.1 for industrial overfeed stoker SCC 1-02-002-05/25 (Supplement E, 9/98)
HAPs emission factors are available in AP-42, Chapter 1.1.
Emission (tons/yr) = Throughput tons per year x Emission Factor (lb/ton) / 2,000 lb/ton
Emissions (lbs/MMBtu) = 10^6 Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x Emission Factor (lb/ton)

Appendix A: Emission Calculations
Coal Usage HAPs Emissions for Boiler 01

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Potential Throughput - Boiler 01
(tons/yr)
16846

HAP	Emission Factor 2 (lbs/ton coal burned)	Emissions (lbs/yr)	(tons/yr)
Hydrogen chloride	2.00E-01	3369.20	1.68E+00
Hydrogen fluoride	1.50E-01	2526.90	1.26E+00
Magnesium	1.10E-02	185.31	9.27E-02
Cyanide	2.50E-03	42.12	2.11E-02
Benzene	1.30E-03	21.90	1.09E-02
Selenium	1.30E-03	21.90	1.09E-02
Benzyl Chloride	7.00E-04	11.79	5.90E-03
Acetaldehyde	5.70E-04	9.60	4.80E-03
Methyl Chloride	5.30E-04	8.93	4.46E-03
Manganese	4.90E-04	8.25	4.13E-03
Lead	4.20E-04	7.08	3.54E-03
Arsenic	4.10E-04	6.91	3.45E-03
Isophorone	5.80E-04	9.77	4.89E-03
		Total PTE HAP	**3.11**

Methodology:

Emission factors are from FIRE 6.25, for industrial overfeed stoker SCC 1-02-002-05
Emission factor for hydrogen chloride is based on a maximum chlorine content of 97.0 ppm from coal sampling in May 2007.
Potential to Emit (tons/yr) = Potential Throughput (tons/yr) * Emission Factor (lbs/ton) / 2000 lbs

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Boiler 01

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
50.0	438.0

boiler 01

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.4	1.7	0.1	21.9	1.2	18.4

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

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, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions
Boiler 01

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
50.0	438.0
boiler 01	

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	4.599E-04	2.628E-04	1.643E-02	3.942E-01	7.446E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.095E-04	2.409E-04	3.066E-04	8.322E-05	4.599E-04
				Worst Single HAP	1.643E-02
				Combined HAPs	4.133E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
New Boiler 08

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
33.746	295.6

boiler 08

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.3	1.1	0.1	14.8	0.8	12.4

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

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, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions
New Boiler 08

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
33.7	295.6
boiler 08	

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	3.104E-04	1.774E-04	1.109E-02	2.661E-01	5.025E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	7.390E-05	1.626E-04	2.069E-04	5.617E-05	3.104E-04
				Worst Single HAP	2.661E-01
				Combined HAPs	2.789E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Industrial Boilers (> 100 mmBtu/hr)
#2 Fuel Oil
New Boiler 08

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year		S = Weight % Sulfur
			0.5
33.746	2111.54	each boiler	

	Pollutant					
	PM*	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	3.3	78.5 *(157S)*	24.0	0.20	5.0
Boiler PTE in tons/yr	2.1	3.5	82.9	25.3	0.2	5.3

Methodology

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, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98
*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emissions Calculations
Industrial Boilers (> 100 mmBtu/hr)
#2 Fuel Oil
HAPs Emissions
New Boiler 08

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year
33.746	2111.54

	HAPs - Metals				
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Boiler PTE in tons/yr	5.91E-04	4.43E-04	4.43E-04	4.43E-04	1.33E-03

	HAPs - Metals (continued)			
	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Boiler PTE in tons/yr	4.43E-04	8.87E-04	4.43E-04	2.22E-03
		Worst single HAP		2.22E-03
		Combined HAPs		7.24E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Grease Combustion Only
MM BTU/HR <100
New Boiler 08

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr
33.746

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.010	0.010	0.0003	0.159	0.00	0.022
Boiler PTE in tons/yr	1.5	1.5	0.0	23.5	0.0	3.3

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
The grease emission factors used were based on stack test performed for existing boilers in 2001. Stack testing will be required to verify these emission factors.

Methodology

Grease Heating Value = 175,000 Btu/gal

Emission (tons/yr) = MMBtu/hr x Emission Factor (lb/MMBtu) x 8760 hrs/yr x ton/2000 lb

Appendix A: Emission Calculations
Waste Oil /On Spec Used Oil Combustion
New Boiler 08

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year
33.746	2126.73

A = Weight % Ash = 0.560%
S = Weight % Sulfur = 0.50%

	Pollutant					
	PM*	PM10*	SO2	NOx	TOC	CO
Emission Factor in lb/kgal	35.8 *(64A)*	28.56 *(51A)*	73.5 *(147S)*	19.0	1.0	5.0
Boiler PTE in tons/yr	38.1	30.4	78.2	20.2	1.1	5.3

Note: The ash % was determined by back-calculating the source's EF of 0.26 lb/MMBtu allowed under 326 IAC 6-2-4.
0.26 lb/MMBtu * 0.139 MMBtu/gal * 1000 gal/kgal = 54.21 lb/kgal / AP-42 Ef of 64A = 0.56%.

Methodology

Emission Factor Units are lb/1000 gal
A = weight% ash in fuel, L = weight% lead in fuel, S = weight % sulfur in fuel
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.139 MM Btu
Emission Factors from AP-42, Chapter 1.11, SCC 1-03-013-02 (Supplement B 10/96)
Emission (tons/yr) = Throughput kgals per year x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emissions Calculations
Waste Oil /On Spec Used Oil Combustion
New Boiler 08
HAPs Calculations

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year
33.746	2126.73

	Pollutant					
	Arsenic	Cadmium	Chromium	Manganese	Nickel	Cobalt
Emission Factor in lb/kgal	1.1E-01	9.3E-03	2.0E-02	6.8E-02	1.1E-02	2.1E-04
Boiler PTE in tons/yr	1.17E-01	9.89E-03	2.13E-02	7.23E-02	1.17E-02	2.23E-04
					Worst Single HAP	1.17E-01
					Combined HAPs	2.32E-01

Methodology is the same as previous page.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Dryer 04

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
20.0	175.2

dryer 04

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.2	0.7	0.1	8.8	0.5	7.4

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

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, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions
Dryer 04

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
20.0	175.2

dryer 04

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.840E-04	1.051E-04	6.570E-03	1.577E-01	2.978E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.380E-05	9.636E-05	1.226E-04	3.329E-05	1.840E-04

Worst Single HAP	1.577E-01
Combined HAPs	1.653E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Industrial Boilers (> 100 mmBtu/hr)
#2 Fuel Oil
Dryer 04 (Back-up Fuel #2)

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
art 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
20	1251.428571	0.5

dryer 04

	Pollutant					
	PM*	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	3.3	78.5 *(157S)*	24.0	0.20	5.0
Potential Emission in tons/yr	1.3	2.1	49.1	15.0	0.1	3.1

Methodology

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, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98
*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emissions Calculations
Industrial Boilers (> 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions
Dryer 04 (Back-up Fuel oil #2)

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year
20	1251.428571

dryer 04

	HAPs - Metals				
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	3.50E-04	2.63E-04	2.63E-04	2.63E-04	7.88E-04

	HAPs - Metals (continued)			
	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Potential Emission in tons/yr	2.63E-04	5.26E-04	2.63E-04	1.31E-03
			Worst Single HAP	1.31E-03
			Combined HAPs	4.29E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Industrial Boilers (> 100 mmBtu/hr)
#2 Fuel Oil
New Boilers 05, 06 and 07

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
art 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr		Potential Throughput kgals/year		S = Weight % Sulfur
				0.5
50.2	each boiler	3141.09	each boiler	
150.6	three boilers	9423.26	three boilers	
		6344	Sourcewide limit	

	Pollutant					
	PM*	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	3.3	78.5 *(157S)*	24.0	0.20	5.0
Each Boiler PTE in tons/yr	3.1	5.2	123.3	37.7	0.3	7.9
Three Boilers PTE in tons/yr	9.4	15.5	369.9	113.1	0.9	23.6
Sourcewide Limited PTE, tons/yr			**249.0**			

Methodology

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, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98
*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emissions Calculations
Industrial Boilers (> 100 mmBtu/hr)
#2 Fuel Oil
HAPs Emissions
New Boilers 05, 06 and 07

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr		Potential Throughput kgals/year
50.2	each boiler	3141.09
Total Boilers Throughput		9423.26

	HAPs - Metals				
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Each Boiler PTE in tons/yr	8.80E-04	6.60E-04	6.60E-04	6.60E-04	1.98E-03
Three Boilers PTE in tons/yr	2.64E-03	1.98E-03	1.98E-03	1.98E-03	5.94E-03

	HAPs - Metals (continued)			
	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Each Boiler PTE in tons/yr	6.60E-04	1.32E-03	6.60E-04	3.30E-03
Three Boilers PTE in tons/yr	1.98E-03	3.96E-03	1.98E-03	9.89E-03
		Worst single HAP		9.89E-03
		Combined HAPs		3.23E-02

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
New Boilers 05, 06 and 07

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr		Potential Throughput MMCF/yr	
50.2	each boiler	439.8	each boiler
150.6	3 boilers	1319.3	three boilers

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Each Boiler PTE in tons/yr	0.4	1.7	0.1	22.0	1.2	18.5
Three Boilers PTE in tons/yr	1.3	5.0	0.4	66.0	3.6	55.4

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

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, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions
New Boilers 05, 06 and 07

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr		Potential Throughput MMCF/yr
50.2	each boiler	439.8
150.60	3 boilers	1319.3

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Each Boiler PTE in tons/yr	4.617E-04	2.639E-04	1.649E-02	3.958E-01	7.476E-04
Three Boilers PTE in tons/yr	1.385E-03	7.916E-04	4.947E-02	1.187E+00	2.243E-03

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Each Boiler PTE in tons/yr	1.099E-04	2.419E-04	3.078E-04	8.355E-05	4.617E-04
Three Boilers PTE in tons/yr	3.298E-04	7.256E-04	9.235E-04	2.507E-04	1.385E-03
				Worst Single HAP	1.187E+00
				Combined HAPs	1.245E+00

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Grease Combustion Only
MM BTU/HR <100
New Boilers 05, 06 and 07

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr	
50.2	each boiler
150.6	three boilers

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.010	0.010	0.0003	0.159	0.00	0.022
Each Boiler PTE in tons/yr	2.2	2.2	0.1	35.0	0.0	4.8
Three Boilers PTE in tons/yr	6.6	6.6	0.2	104.9	0.0	14.5

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
The grease emission factors used were based on stack test performed for existing boilers in 2001.

Methodology

Grease Heating Value = 135,000 Btu/gal

Emission (tons/yr) = MMBtu/hr x Emission Factor (lb/MMBtu) x 8760 hrs/yr x ton/2000 lb

Appendix A: Emission Calculations
Waste Oil /On Spec Used Oil Combustion
New Boilers 05, 06 and 07

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr		Potential Throughput kgals/year	
50.2	each boiler	3163.68	each boiler
150.6	three boilers	9491.05	three boilers

A = Weight % Ash = 0.560%
S = Weight % Sulfur = 0.50%

	Pollutant					
	PM	PM10	SO2	NOx	TOC	CO
Emission Factor in lb/kgal	35.8 *(64A)*	28.56 *(51A)*	73.5 *(147S)*	19.0	1.0	5.0
Each Boiler PTE in tons/yr	56.7	45.2	116.3	30.1	1.6	7.9
Three Boilers PTE in tons/yr	170.1	135.5	348.8	90.2	4.7	23.7

Note: The ash % was determined by back-calculating the source's EF of 0.26 lb/MMBtu allowed under 326 IAC 6-2-4.
0.26 lb/MMBtu * 0.139 MMBtu/gal * 1000 gal/kgal = 54.21 lb/kgal / AP-42 Ef of 64A = 0.56%.

Methodology

Emission Factor Units are lb/1000 gal
A = weight% ash in fuel, L = weight% lead in fuel, S = weight % sulfur in fuel
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.139 MM Btu
Emission Factors from AP-42, Chapter 1.11, SCC 1-03-013-02 (Supplement B 10/96)
Emission (tons/yr) = Throughput kgals per year x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emissions Calculations
Waste Oil /On Spec Used Oil Combustion
New Boilers 05, 06 and 07
HAPs Calculations

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
Part 70 Operating Permit Renewal No.: 055-20227
Permit No./Plt ID: 055-00008
Reviewer: Aida De Guzman
Application Received: October 31, 2007

Heat Input Capacity MMBtu/hr		Potential Throughput kgals/year	
50.2	each boiler	3163.68	each boiler
150.6	three boilers	9491.05	three boilers

	Pollutant					
	Arsenic	Cadmium	Chromium	Manganese	Nickel	Cobalt
Emission Factor in lb/kgal	1.1E-01	9.3E-03	2.0E-02	6.8E-02	1.1E-02	2.1E-04
Each Boiler PTE in tons/yr	1.74E-01	1.47E-02	3.16E-02	1.08E-01	1.74E-02	3.32E-04
Three Boilers PTE in tons/yr	5.22E-01	4.41E-02	9.49E-02	3.23E-01	5.22E-02	9.97E-04
					Worst Single HAP	5.22E-01
					Combined HAPs	1.04E+00

Methodology is the same as previous page.

Company Name: Griffin Industries, Inc.
Address City IN Zip: CR 400 West, Route 1 Box 112, Newberry, IN 47499
SSM No.: 055-25477
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SOURCEWIDE LIMITS

The sourcewide emissions show that only PM and SO2 have the potential exceeding the major source threshold level of 250 tons per year. The source requested that it be limited to a sourcewide total limit (existing emission units and proposed new emission units) below 250 tons per year to avoid the applicability of 326 IAC 2-2 (PSD) and to stay a minor PSD source.

Boiler 01, which is the only boiler that uses coal as the main fuel, has the worst SO2 emissions of 704.20 tons/year. Therefore, the coal usage should be limited in this case. However, since no. 2 fuel oil is the 2nd worst fuel and commonly used by the boilers and dryer, the fuel oil usage will be limited instead. Limiting the fuel oil will eliminate doing more fuel equivalency calculations from the source as part of the fuel usage recordkeeping and reporting.

Note: The sources of SO2 emissions from the plant are from one existing boiler 01 , one existing dryer 04 and proposed four boilers 05, 06, 07 and 08. The existing Boiler 03 has been replaced by Boiler 08. The existing Boiler 02 which is fired by coal has been removed from service.

No. 2 Fuel Oil Limit

249 tons SO2/yr * 2000 lbs/ton * kgal/78.5 lbs = 6,344 kgallons/yr at 0.5% average sulfur content.
Note: This limit accounted for the SO2 control (dry limestone injection) for boiler 01. Testing will be required for this control if efficiency of 78% is achieved.

PM testing for the boiler 01 baghouse will be required since it emits majority of the PM.
No PM testing will be required for the other controls, since they emit minimal amount of PM. Furthermore, limiting the fuel burned will automatically reduce emissions from all pollutants.

Fuel Equivalency

Waste Oil/On Spec Used Oil :

78.5 lb SO2/kgal F. O. * kgal W.O./73.5 lb SO2 = 1.07 kgal W. O. is equivalent to 1 kgal F. O.

Grease:

135,000 Btu/gal * MM/1,000,000 = 0.135 MMBtu/gal
0.0003 lb/MMBtu * 0.135 MMBtu/gal = 405 E-05 lb/gal
405 E-05 lb/gal * 1000 gal/kgal = 0.0405 lb/kgal
78.5 lb SO2/kgal F. O. / 0.0405 lb SO2/kgal = 1,938 kgal of grease is equivalent to 1 kgal of F.O.

Natural Gas:

78.5 lb SO2/kgal F. O. * 1 MMCF/0.6 lb SO2 = 130.8 MMCF N. G. is equivalent to 1 kgal F. O.

Coal:

78.5 lb SO2/kgal F. O. * ton/83.6 lb SO2 = 0.93 ton of coal with 2.2 % maximum sulfur content is equivalent to 1 kgal of F. O.
= 0.93 ton of coal/(1-0.78)
= 4.22 tons of coal with 2.2% maximum sulfur content is equivalent to 1 kgal of F. O.