



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: January 26, 2006
RE: Eli Lilly Company / 059-21913-00001
FROM: Paul Dubenetzky
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, Room 1049, 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.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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Mr. Jon C. Mangles
Eli Lilly and Company - Greenfield Laboratories
P.O. Box 708
Greenfield, IN 46140

January 26, 2006

Re: **059-21913-00001**
First Significant Revision to
FESOP 059-12151-00001

Dear Mr. Mangles:

Eli Lilly and Company - Greenfield Laboratories was issued a Federally Enforceable State Operating Permit (FESOP) F 059-12151-00001 on May 2, 2002 for a pharmaceutical research source. A letter requesting changes to this permit was received on October 18, 2005. Pursuant to the provisions of 326 IAC 2-8-11.1, a Significant Permit Revision to this permit is hereby approved as described in the attached Technical Support Document.

The revision consists of the construction and operation of the following emission units and pollution control devices:

One (1) natural gas-fired boiler, identified as 254-R, using No. 2 fuel oil as a backup fuel, heat input capacity: 82.3 million British thermal units per hour.

The boiler will be included in the existing fuel usage limitations in the permit. The boiler is also subject to the requirements of 40 CFR 60, Subpart Dc. The revision also consists of the following changes:

- (a) Two (2) No. 2 fuel oil-fired emergency generators, identified as B409 and 291, have been removed from this source. Therefore, they have been removed from the permit, along with all applicable conditions in Section D.3 of the permit.
- (b) Emergency Generator 252 has been redesignated Emergency Generator 253. References to the generator have been revised in the permit.
- (c) All degreasing operations have been removed from this source. Therefore, Section D.5 has been removed from the permit.
- (d) The pharmaceutical production facility (Building 409) has been removed from this source. Therefore, Section D.6 has been removed from the permit.
- (e) Conditions D.2.1 and D.2.2 have been revised to reflect the current requirements of 326 IAC 4-2-2 and 326 IAC 9.
- (f) The IDEM, OAQ, address has been updated in the permit.

- (g) Section A.1 has been revised to indicate that Hancock County has been designated as basic nonattainment for the 8-hour ozone standard and this source is in one (1) of the twenty-eight (28) listed source categories in 326 IAC 2-2 and 326 IAC 2-3.
- (h) The duty to supplement an application is not an ongoing requirement after the permit is issued; therefore, (a) has been removed from Condition B.8 (Duty to Supplement and Provide Information). Since Condition B.8(c) already addresses confidentiality, the last sentence of (b) was revised to remove the statement about confidential information, and (c) was updated for clarity. Also, the condition was revised to change a rule reference. Subpart (c) references 326 IAC 17. This rule was repealed by the Air Pollution Control Board on January 26, 2000. The new rule reference has been added.
- (i) A statement was added to Condition B.11 (Certification) in order to clarify that the certification form may cover more than one document that is submitted.
- (j) IDEM has clarified the Condition B.19 (Operational Flexibility) in the permit.
- (k) For clarity, additional rule cites have been added to Condition B.21 (Inspection and Entry).
- (l) The name of the OAQ section and the phone number has been updated in Condition B.23 (Annual Fee Payment) of the permit.
- (m) Condition B.24, Credible Evidence, has been added to the permit.
- (n) The rule cites for Conditions D.2.3 and D.4.1 have been corrected.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
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 (Revocation), 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.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire revised FESOP, with all revisions and amendments made to it, is being provided.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact CarrieAnn Paukowits, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, at 631-691-3395 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Original Signed By:
Paul Dubenetzky, Assistant Commissioner
Office of Air Quality

CAP/MES

Attachments

cc: File - Hancock County
U.S. EPA, Region V
Hancock County Health Department
Air Compliance Section Inspector - DJ Knotts
Compliance Branch
Administrative and Development Section
Technical Support and Modeling - Michele Boner
Amy Callahan, Eli Lilly and Company - Greenfield Laboratories



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FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP) RENEWAL
OFFICE OF AIR QUALITY

Eli Lilly and Company - Greenfield Laboratories
2001 West Main Street
Greenfield, Indiana 46140

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 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.

Table with 2 columns and 4 rows containing permit details: Operation Permit No., Issued by, Issuance Date, Expiration Date, Administrative Amendments, Significant Permit Modification, and Issuance/Expiration Date for modification.

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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.5 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary pharmaceutical research source.

Authorized individual: Mark S. Studt, Manager Plant Engineering, Maintenance and Utilities
 or
 Amy Callahan, Team Leader, Environmental Services

Source Address: 2001 West Main Street, Greenfield, Indiana 46140

Mailing Address: P.O. Box 708, Greenfield, Indiana 46140

SIC Code: 2834 and 2879

County Location: Hancock County

Source Location Status: Basic Nonattainment for the 8-hour ozone standard
 Attainment for all other criteria pollutants

Source Status: Federally Enforceable State Operating Permit (FESOP)
 Minor Source, under PSD and Emission Offset Rules
 1 of 28 Source Categories

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

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

(a) Five (5) boilers

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
5	natural gas/no. 2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, 254-4, and 254-R) with heat input capacities of 51.0, 63.0, 67.0, 78.0, and 82.3 million Btu per hour, respectively Under NSPS Subpart Dc, the one (1) boiler, identified as 254-R, is considered an affected facility because construction of the boiler commenced after June 9, 1989 and the boiler has a maximum design heat input capacity of 100 million Btu per hour or less, but greater than or equal to 10 million Btu per hour.	none	254-1, 254-2, 254-3, 254-4, and 254-R, respectively

(b) One (1) incinerator

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
1	natural gas-fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour.	none	241-1

(c) One (1) 200 hours per year emergency generator

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
1	No. 2 fuel oil fired emergency generator (ID #EMG-TOX) with a heat input capacity of 19.3 million Btu per hour	none	0

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

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

- (a) Three (3) natural gas-fired boilers (ID#s 293-1, 229-1, and 229-2), with heat input capacities less than or equal to 2.1 million Btu per hour (Note: These insignificant activities have applicable requirements in section D.1).
- (b) Six (6) no. 2 fuel oil-fired emergency generators (ID#s 226, 253, 241-out, 254a, 254b, and 418), each with a heat input capacity less than or equal to 3.75 million Btu per hour.
- (c) Fifteen (15) natural gas-fired emergency generators (ID#s 206, 223, 229, 235, 241-penthouse, 244, 245, 246, 276, 288, 292, 296, 417, 428-east, and 428-west), each with a heat input capacity less than or equal to 0.66 million Btu per hour.
- (d) Three (3) propane-fired emergency generators (ID#s 212, 290, and 248), each with a heat input capacity less than or equal to 0.42 million Btu per hour.
- (e) Two (2) no. 2 fuel oil fired emergency fire pump engines (ID#s FP-B204 and FP-B208), each with a heat input capacity of 0.82 million Btu/hr. (Note: These insignificant activities have applicable requirements in D.4).
- (f) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (g) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (h) One (1) fuel oil storage tank (ID# 254-F) with a capacity of 250,000 gallons;
- (i) Activities associated with the transportation and treatment of sanitary sewage (on-site sewage treatment facility);

- (j) Asbestos abatement projects regulated by 326 IAC 14-10;
- (k) On-site fire and emergency response training approved by IDEM;
- (l) Laboratories as defined in 326 IAC 2-7-1;
- (m) Farm operations; and
- (n) One (1) diesel reciprocating internal engine emergency generator, rated at 166 horsepower (hp), identified as EG210;
- (o) One (1) natural gas-fired reciprocating internal engine emergency generator, rated at 415 hp, identified as EG239;
- (p) One (1) diesel generator rated at 1,200 hp, identified as EG220; and
- (q) One (1) diesel generator rated at 2,836 hp, identified as LC45.

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

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

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued or revised. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, 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 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the issuance date, 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.

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

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

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

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

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

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

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

B.8 Duty to Provide Information [326 IAC 2-8-4(5)(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 "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

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

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

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit may be grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

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

- (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 an authorized individual of truth, accuracy, and completeness. This certification, and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications 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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (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 the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
- (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source. IDEM, OAQ will notify Permittee in writing to specify the requested additional facts needed to determine compliance status of the source.

The compliance certification report which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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The PMP and the PMP extension notification do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept 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.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, 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 by telephone or facsimile;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Data Section)
Facsimile No.: 317-233-5967

- (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:

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (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) 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 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

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

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Compliance Branch, Office of Air Quality
100 North Senate Avenue
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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 need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-8(a)]
- (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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, 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 2-8-8(c)]

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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Permits Branch, Office of Air Quality
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- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due. [326 IAC 2-8-3]
- (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 until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, 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 needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 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 46204-2251
- Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 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:

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Permits Branch, Office of Air Quality
100 North Senate Avenue
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 2-8-15 (b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) For each such change described in subsection (a), the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).

- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.
- (e) Back-up fuel switches specifically addressed in, and limited under, section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-30-3-1]

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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:

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Permits Branch, Office of Air Quality
100 North Senate Avenue
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The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (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) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [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

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration (PSD)) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

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(3)]

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

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).

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61.145, 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 regulated 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
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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 14-10-4 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) 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, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

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

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

There are no stack testing requirements necessary for the source.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. 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 2-8-4] [326 IAC 2-8-5(a)(1)]

C.9 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(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:

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

The notification which shall be submitted by the Permittee does require the certification by the authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.10 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, whenever applicable, 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.

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

C.11 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

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

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.12 Compliance Response Plan - Preparation, Implementation, Records and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:

- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
- (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

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

permit.

- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and 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 a minor permit modification to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken pursuant to Section D. 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.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

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

C.13 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports 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. 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.14 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source 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 "authorized individual" as defined by 326 IAC2-1.1-1(1).

- (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 Branch, Office of Air Quality
100 North Senate Avenue
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, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.15 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 as applicable:

- (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 2-8-4(10)]:

- (a) Five (5) natural gas/no.2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, 254-4, and 254-R) with heat input capacities of 51.0, 63.0, 67.0, 78.0, and 82.3 million Btu per hour, respectively. These boilers do not have any air pollution control devices and each one exhausts through one (1) stack 254-1, 254-2, 254-3, 254-4, and 254-R, respectively. Under NSPS Subpart Dc, the one (1) boiler, identified as 254-R, is considered an affected facility because construction of the boiler commenced after June 9, 1989 and the boiler has a maximum design heat input capacity of 100 million Btu per hour or less, but greater than or equal to 10 million Btu per hour.

Insignificant activity:

- (a) three (3) natural gas-fired boilers (ID#s 293-1, 229-1 and 229-2) with heat input capacities less than or equal to 2.1 million Btu per hour;

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

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

D.1.1 Nitrogen Oxides (NO_x) From the Boilers [326 IAC 2-2, 326 IAC 2-3 and 326 IAC 2-8]

The total usage of natural gas as the primary fuel for all eight (8) boilers including the insignificant units (i.e., boilers 293-1, 229-1, and 229-2) shall be limited to 738.0 million cubic feet per twelve consecutive month period, rolled on a monthly basis, with compliance determined at the end of each month (Note: For every gallon of #2 fuel oil used, 200 cubic feet of natural gas shall be deducted from this limit.). This fuel usage limitation is necessary to limit the potential to emit NO_x to 36.9 tons per 12 consecutive month period, rolled on a monthly basis from all boilers only. This limit shall make the Prevention of Significant Deterioration (326 IAC 2-2) and Part 70 (326 IAC 2-7) rules not applicable.

D.1.2 Nitrogen Oxides (NO_x) From Boiler 254-4 [326 IAC 2-8-4(12)(A)]

Pursuant to Construction Permit No. 30-07-93-0074, nitrogen oxide emissions from boiler 254-4 shall be limited to 0.23 pounds per million Btu heat input or an equivalent of 17.94 pounds per hour.

D.1.3 Sulfur Dioxide (SO₂) Emissions From Boilers 254-1, 254-2, 254-3, and 254-R [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the combustion of #2 distillate fuel oil for boilers 254-1, 254-2, 254-3, and 254-R shall each be limited to 0.5 pounds per million BTU heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.4 Sulfur Dioxide (SO₂) Emissions From Boilers 254-4 [326 IAC 2-8-4(12)(A)]

Pursuant to Construction Permit No. 30-07-93-0074, sulfur dioxide emissions from boiler 254-4 shall be limited to 0.36 pound per million Btu heat input.

D.1.5 Sulfur Dioxide (SO₂) Emissions From the Boilers [326 IAC 2-2 and 326 IAC 2-8]

The total usage of no.2 fuel oil for all eight (8) boilers including the insignificant units (i.e., boilers 293-1, 229-1, and 229-2) shall be limited to 3,332.0 kilogallons per twelve (12) consecutive month period, rolled on a monthly basis. This fuel usage limitation is necessary to limit the potential to emit SO₂ to 82.8 tons per 12 consecutive month period rolled on a monthly basis from the boilers

only. In order for the source-wide SO₂ emissions to not exceed the Part 70 emission threshold of 100 tons per year, the sulfur content of the no. 2 fuel shall not exceed 0.35 % sulfur content. Compliance with the SO₂ limit shall make the Prevention of Significant Deterioration (326 IAC 2-2) and Part 70 (326 IAC 2-7) rules not applicable.

D.1.6 Particulate Matter (PM) [326 IAC 6-2-2(b)(c) and 326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-2(b), the particulate matter emissions from the existing boilers; identified as 254-1 and 254-2, located in Hancock County which were existing and in operation on or before June 8, 1972 shall each not exceed 0.39 pound per million Btu (lb/mmBtu).
- (b) Pursuant to 326 IAC 6-2-2(c), the particulate matter emissions from boiler 254-3 located in Hancock County, which began operation after June 8, 1972 and prior to September 21, 1983 shall not exceed 0.35 lb/mmBtu.
- (c) Pursuant to 326 IAC 6-2-4, the particulate matter emissions from the existing boiler; identified as 293-1, which was constructed after September 21, 1983 shall not exceed 0.25 lb/mmBtu.
- (d) Pursuant to Construction Permit No.: 30-07-93-0074, the particulate matter emissions from boiler 254-4 shall not exceed 0.015 lb/mmBtu.
- (e) Pursuant to 326 IAC 6-2-4, the PM emissions from the one (1) 82.3 million British thermal unit per hour boiler, identified as 254-R shall not exceed 0.24 pound per million British thermal units. This limitation is based upon the following equation:

$$Pt = 1.09/Q^{0.26}$$

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

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

D.1.7 Carbon Monoxide (CO) Emissions From the Boilers [326 IAC 2-8]

The fuel usage limitations in Conditions D.1.1 and D.1.5 shall limit the potential to emit CO from the eight (8) boilers to 31.0 tons per year and the potential to emit CO from the entire source to less than 100 tons per year. Therefore, the requirements of Part 70 (326 IAC 2-7) are not applicable.

D.1.8 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for boilers IDs 254-1, 254-2, 254-3, 254-4, and 254-R pertaining to the combustion of fuel oil only.

Compliance Determination Requirements

D.1.9 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

Compliance with Conditions D.1.3, D.1.4, and D.1.5 shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pound per million Btu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor 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.
- (b) 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.

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

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

D.1.10 Visible Emissions Notations

- (a) Visible emission notations of the boilers IDs 254-1, 254-2, 254-3, 254-4 and 254-R stack exhausts shall be performed once per day during normal daylight operations while combusting fuel oil. 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. Failure to take response steps in accordance with Section C - Compliance Response Plan – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

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

D.1.11 Record Keeping Requirements

- (a) The Permittee shall maintain monthly records of the following values:
- (1) Amount of fuel oil used (for all boilers);
 - (2) Amount of natural gas used (for all boilers);
 - (3) Average sulfur content of fuel oil used (for all boilers);
 - (4) Average higher heating value of the fuel oil used (for boiler IDs 254-1, 254-2, 254-3, 254-4, and 254-R only); and
 - (5) Average sulfur dioxide emission rate (expressed in pounds per million Btu)(for boilers 254-1, 254-2, 254-3, 254-4, and 254-R only).

Items (1) and (2) shall be used to determine compliance with Condition D.1.1. Items (1) through (5) shall be used to determine compliance with condition D.1.3 and D.1.4. Items (1) and (3) shall be used to determine compliance with condition D.1.5.

Records of sulfur content and higher heating value can be determined by information as obtained from the vendor. As long as the certified vendor analysis indicates that the sulfur content is less than 0.35 percent and the heating value of the fuel oil delivered is greater than 137,000 Btu per gallon, the Permittee can note "less than 0.35 percent" and "greater than 137,000 Btu per gallon" for items (3) and (4) respectively.

- (b) To document compliance with Condition D.1.10, the Permittee shall maintain records of visible emission notations of the boiler IDs 254-1, 254-2, 254-3, 254-4, and 254-R stacks while combusting no. 2 fuel oil.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.12 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.5 and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).
- (b) The Permittee shall certify, on the form provided, that natural gas was fired in the boiler at all times during each quarter. Alternatively, the Permittee shall report the number of days during which an alternate fuel was burned during each quarter.

New Source Performance Standards (NSPS) Requirements [326 IAC 12-1]

D.1.13 General Provisions Relating to NSPS Dc [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 12-1-1 for the one (1) boiler identified as 254-R.

- (b) Pursuant to 40 CFR 60.10, 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,
Indianapolis, Indiana 46204-2251

D.1.14 NSPS Dc Requirements [40 CFR Part 60, Subpart Dc] [326 IAC 12-1]

Pursuant to CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart Dc for the one (1) boiler identified as 254-R as specified as follows.

§ 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 Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/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 which meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO₂) 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.

§ 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 ch a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society for Testing and Materials in ASTM D388-77, "Standard Specification for Classification of Coals by Rank" (incorporated by reference—see §60.17); coal refuse; and petroleum coke. Synthetic fuels derived from coal for the purpose of creating useful heat, including but not limited to solvent-refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are 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 D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (incorporated by reference—see §60.17).

Dry flue gas desulfurization technology means a sulfur dioxide (SO₂) control 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 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 SO₂ control 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 40 CFR 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 D1835–86, 87, 91, or 97, “Standard Specification for Liquefied Petroleum Gases” (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 SO₂ emissions (nanograms per joule [ng/J], or pounds per million Btu [lb/million Btu] 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 D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (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 SO₂ control 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 particulate matter (PM) or SO₂.

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

(d) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, 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 SO₂ in excess of 215 ng/J (0.50 lb/million Btu) 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.

(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)(1), (2), or (3), as applicable.

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

(i) The SO₂ emission 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

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, 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 million Btu/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.

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

(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 SO₂ standards 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)(1), (2), or (3), 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.

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

§ 60.46c Emission monitoring for sulfur dioxide

(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 SO₂ standards based on fuel supplier certification, as described under §60.48c(f) (1), (2), or (3), as applicable.

§ 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, anticipated startup, 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 SO₂ emissions. 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 SO₂ emission 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.

(d) The owner or operator of each affected facility subject to the SO₂ emission 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 SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c 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 SO₂ emission rate (nj/J or lb/million Btu), 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.

(4) Identification of any steam generating unit operating days for which SO₂ or diluent (oxygen or carbon dioxide) 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.

(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), or (3) 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; and

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

(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

(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.

D.1.15 One Time Deadlines Relating to NSPS Dc

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Initial Performance Tests	40 CFR 60.45c(a)	Boiler 254-R	within 60 days after achieving the maximum production rate at which the boiler will be operated, but not later than 180 days after initial startup
Notification of the date of construction or reconstruction	40 CFR 60.48c(a)	Boiler 254-R	no later than 30 days after such date
Notification of the date of anticipated startup and actual startup	40 CFR 60.48c(a)	Boiler 254-R	within 15 days after such date

SECTION D.2

FACILITY OPERATION CONDITIONS

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

(b) One (1) incinerator:

one (1) natural gas fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour. This incinerator does not have any air pollution control device and exhausts through stack 241-1.

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

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

D.2.1 Particulate Matter [326 IAC 4-2]

Pursuant to 326 IAC 4-2 (Incinerator Rule), the incinerator shall:

- (a) consist of primary and secondary chambers or the equivalent;
- (b) be equipped with a primary burner unless burning only wood products;
- (c) comply with 326 IAC 5-1 and 326 IAC 2;
- (d) be maintained, operated, and burn waste in accordance with:
 - (1) the manufacturer's specifications; or
 - (2) an operation and maintenance plan as specified in 326 IAC 4-2-2(c) as follows:
 - (A) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in Condition D.2.1(e) and include the following:
 - (i) Procedures for receiving, handling, and charging waste.
 - (ii) Procedures for incinerator startup and shutdown.
 - (iii) Procedures for responding to a malfunction.
 - (iv) Procedures for maintaining proper combustion air supply levels.
 - (v) Procedures for operating the incinerator and associated air pollution control systems.
 - (vi) Procedures for handling ash.
 - (vii) A list of wastes that can be burned in the incinerator.
 - (B) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.

- (C) The operation and maintenance plan must be readily accessible to incinerator operators.
- (D) The owner or operator of the incinerator shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section; and
- (e) not emit particulate matter (PM) emissions in excess of 0.3 pound per 1,000 pounds of dry exhaust gas under standard conditions corrected to 50% excess air.

If any of the requirements above are not met, then the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

D.2.2 Carbon Monoxide (CO) [326 IAC 9]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the Consumat incinerator (ID#241-1) unless the waste gas stream is burned in a direct-flame afterburner or secondary chamber.

D.2.3 Hydrochloric Acid (HAP) [326 IAC 2-8]

The total annual waste throughput to the incinerator shall not exceed a total of 591 tons per twelve (12) consecutive month period, rolled on a monthly basis. This limitation was taken by the company and is equivalent to hydrochloric acid (a HAP) emissions less than 10 tons per year rolled on a monthly basis from both incinerators. Compliance with the HAP limit shall make Part 70 (326 IAC 2-7) not applicable.

D.2.4 Medical Waste Incinerator Emission Guideline Exemption [326 IAC 12 and 40 CFR Part 60.30e, Subpart Ce]

The weight of the fuel feed stream to incinerator, ID#241-1 shall be comprised of ten percent (10%) or less, in aggregate, of hospital waste and medical/infectious waste as measured on a calendar quarter basis. Compliance with this limit and the record keeping requirement in Section D.2.7, qualifies the incinerator, ID#241-1 as a "co-fired combustors" as defined by 40 CFR 60.51c and exempts it from 40 CFR Part 60.30e, Subpart Ce.

D.2.5 40 CFR Part 60.2500, Subpart DDDD Emission Guidelines for Existing Sources: Commercial and Industrial Solid Waste Incineration Units [326 IAC 12 and 40 CFR Part 60.2500]

The weight of the waste-feed stream to the 241-1 incinerator shall be comprised of thirty percent (30%) or greater, in aggregate, of municipal solid waste or refuse-derived fuel, as defined in 40 CFR 60 Subpart Ea, Subpart Eb, Subpart AAAA and Subpart BBBB, and the incinerator has the capacity to burn less than 35 tons/day municipal solid waste or refuse-derived fuel, as measured on calendar quarter basis. As specified in 40 CFR 60.2555(c), due to the above limit and the record keeping requirement in Section D.2.7, the incinerator is exempt from 40 CFR Part 60, Subpart DDDD.

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test this incinerator by this permit.

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

D.2.7 Waste Throughput

The Permittee shall maintain records of the following values:

- (a) Total monthly amount of waste burned and annual amount of waste burned to the incinerator rolled on a monthly basis;
- (b) Total monthly hydrochloric acid emissions and annual hydrochloric acid emissions rolled on a monthly basis; and
- (c) The weight on a calendar quarter basis, in aggregate of hospital waste and medical/infectious waste, the weight of municipal waste combusted, and the weight of all other fuels and waste combusted in incinerator 241-1.

D.2.8 Quarterly Reporting

A quarterly summary of the information to document compliance with Condition D.2.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported. These reports shall include the calendar month amount of waste burned, the calendar month hydrochloric acid emissions, the 12 month rolling total of amount of waste burned and hydrochloric acid emissions, for each month in a reporting period.

The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (c) One (1) No. 2 fuel oil fired emergency generator (ID #EMG-TOX) with a heat input capacity of 19.3 million Btu per hour.

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

Remainder of the page intentionally left blank.

SECTION D.4

FACILITY OPERATION CONDITIONS

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

- (f) Two (2) no. 2 fuel oil-fired emergency fire pump engines (ID#s FP-B204 and FP-B208), each with a heat input capacity of 0.82 million Btu/hr. These fire pumps do not have an air pollution control device. Fire pump engine FP-B204 exhausts through parallel stacks FP-B204A and FP-B204B. Fire pump engine FP-B208 exhausts through FP-B208A and FP-B208B.

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

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

D.4.1 Nitrogen Oxides (NO_x) [326 IAC 2-2 and 40 CFR 52.21 and 326 IAC 2-8]

The two (2) no. 2 fuel oil fired emergency fire pump engines (ID#s FP-B204 and FP-B208) shall each have an annual hours of operation limited to 500 hours per twelve (12) consecutive month period, rolled on a monthly basis. Compliance with the limit shall make 326 IAC 2-2 and 40 CFR 52.21, the Prevention of Significant Deterioration, and 326 IAC 2-7, Part 70 Permit Program not applicable.

Compliance Determination Requirements

D.4.2 Testing Requirements [326 IAC 2-8-4(3)]

The Permittee is not required to test emergency fire pump engines (ID#s FP-B204 and FP-B208) by this permit.

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

D.4.3 Record Keeping Requirements

To document compliance with Condition D.4.1 the Permittee shall maintain records of the times that each emergency fire pump engines is operating to document that each fire pump engine is not operating more than 500 hours per twelve (12) consecutive month period rolled on a monthly basis.

D.4.4 Reporting Requirements

A summary to document compliance with Condition D.4.1 shall be submitted upon request of the IDEM, OAQ to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the request was made. The report shall include the monthly hours that the pump engines have operated. If a report is requested, the report shall include a certification by the authorized individual.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 Office of Air Quality
 COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Eli Lilly and Company, Greenfield Laboratories
 Source Address: 2001 West Main Street, Greenfield, Indiana 46140
 Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
 FESOP No.: F059-12151-60001
 Facility: Five (5) natural gas/no.2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, 254-4, and 254-R) with heat input capacities of 51.0, 63.0, 67.0, 78.0, and 82.3 million Btu per hour, respectively.
insignificant activities:
 three (3) natural gas-fired boilers (ID#s 293-1, 229-1 and 229-2), with a heat input capacities less than or equal to 2.1 million Btu per hour.
 Parameter: Average sulfur content of no. 2 fuel oil, NO_x, SO₂ and CO emissions
 Limit: 738 million cubic feet of natural gas per 12 consecutive month period, rolled on a monthly basis and 0.35% sulfur content of no. 2 fuel oil; 3,332 kgals of fuel oil per 12 consecutive months rolled on a monthly basis.

Year: _____ Quarter _____

Month	Average sulfur content of fuel oil (%)	Fuel usage per month A. (cubic feet of natural gas) B. (gallons of fuel oil)	Fuel usage for the previous 12 months C. (A+ 200*B) cubic feet
Month 1		A. B.	C.
Month 2		A. B.	C.
Month 3		A. B.	C.

Note: 200 cubic feet of natural gas is equivalent to 1 gallon of #2 distillate fuel oil.

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality
COMPLIANCE DATA SECTION
FESOP Quarterly Report

Source Name: Eli Lilly and Company, Greenfield Laboratories
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
FESOP No.: F059-12151-00001
Facility: One (1) natural gas, multi chamber, Consumat incinerator (ID# 241-1) with a heat input capacity of 2.8 million Btu per hour.
Parameter: total waste throughput and hydrochloric acid (HCl) emissions
Limit: Less than 591 tons of waste per 12 consecutive month period, rolled on a monthly basis and
Less than 10 tons of HCl per 12 consecutive month period rolled on a monthly basis.

Year: _____ Quarter _____

Month	waste throughput per month (tons)	waste throughput for the previous 12 months (tons)	HCl emissions per month (tons)	HCl emissions for the previous 12 months (tons)
Month 1				
Month 2				
Month 3				

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH**

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

Source Name: Eli Lilly and Company, Greenfield Laboratories
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
FESOP No.: F059-12151-00001

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-5674
Fax: 317-233-5967**

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

Source Name: Eli Lilly and Company, Greenfield Laboratories
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
FESOP No.: F059-12151-00001

This form consists of 2 pages

Page 1 of 2

☛ This is an emergency as defined in 326 IAC 2-7-1(12)
Emergency lasting one hour or more, the Permittee must notify the Office of Air Quality (OAQ), within four
hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
Emergency lasting one hour or more the Permittee must submit notice in writing or by facsimile within two
days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Eli Lilly and Company, Greenfield Laboratories
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
FESOP No.: F059-12151-00001

**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:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH**

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

Source Name: Eli Lilly and Company, Greenfield Laboratories
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
FESOP No.: F059-12151-00001

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p><input type="radio"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="radio"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name:	Eli Lilly and Company - Greenfield Laboratories
Source Location:	2001 West Main Street, Greenfield, IN 46140
County:	Hancock
SIC Code:	2834
Operation Permit No.:	F 059-12151-00001
Significant Permit Revision No.:	SPR 059-21913-00001
Permit Reviewer:	CarrieAnn Paukowits

On December 14, 2005, the Office of Air Quality (OAQ) had a notice published in the Daily Reporter, Greenfield, Indiana, stating that Eli Lilly and Company - Greenfield Laboratories had applied for a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP) relating to the construction and operation of one (1) natural gas-fired boiler, identified as 254-R, using No. 2 fuel oil as a backup fuel, at the existing stationary pharmaceutical research source. The notice also stated that OAQ proposed to issue a Significant Permit Revision to a FESOP for this operation and provided information on how the public could review the proposed Significant Permit Revision to a FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Significant Permit Revision to a FESOP should be issued as proposed.

On January 11, 2006, Amy Callahan of Eli Lilly and Company - Greenfield Laboratories submitted comments on the proposed Significant Permit Revision to a FESOP. The comments are as follows (The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.):

Comment 1:

TSD CLARIFICATIONS:

1. Page 4, Source Status (a). Please note that this existing source is one of the twenty-eight (28) listed source categories.
2. Page 8, Compliance Requirements – indented paragraph. The Permittee does not wish to change the original language in the permit, so “Section C-Response to Excursion or Exceedences” (stated twice) should be change back to Compliance Response Plan as stated in the original language. The language is correct in the revised permit.
3. Page 27, Change 9 (b). Please insert period at the end of reference 326 IAC 17.1 and then capitalize the W in When. This correction should also be made in Condition B.8(b) of the permit.
4. Page 30, Change 14. Should be numbered as B.24. This is correct in the permit.

Response 1:

IDEM, OAQ, prefers that the TSD remain as it appeared during public notice. Changes to the technical information are documented in this addendum to the TSD. IDEM, OAQ, agrees with these comments. The permit language is correct for all except Condition B.8, which has been revised in the permit as follows:

B.8 Duty to Provide Information [326 IAC 2-8-4(5)(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 "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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. ~~w~~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.

Comment 2:

Draft Permit Section D.1.1

Lilly would like for the phrase "rolled on a monthly basis" to remain in the text for clarification, as follows:

D.1.1 Nitrogen Oxides (NO_x) From the Boilers [326 IAC 2-2, 326 IAC 2-3 and 326 IAC 2-8]

The total usage of natural gas as the primary fuel for all eight (8) boilers including the insignificant units (i.e., boilers 293-1, 229-1, and 229-2) shall be limited to 738.0 million cubic feet per twelve consecutive month period, *rolled on a monthly basis*, with compliance determined at the end of each month (Note: For every gallon of #2 fuel oil used, 200 cubic feet of natural gas shall be deducted from this limit.). This fuel usage limitation is necessary to limit the potential to emit NO_x to 36.9 tons per 12 consecutive month period, rolled on a monthly basis from all boilers only. This limit shall make the Prevention of Significant Deterioration (326 IAC 2-2) and Part 70 (326 IAC 2-7) rules not applicable.

Response 2:

The permit language is correct as it appeared on public notice. The phrase "rolled on a monthly basis" has been replaced with "with compliance determined at the end of each month" in this permit revision. IDEM, OAQ, prefers the new language because in addition to indicating the term of the limit, it specifies that the source must be able to show compliance with the limit at the end of each month. However, the phrase "rolled on a monthly basis" has been added back into the condition as requested, for clarity. Condition D.1.1 has been revised as follows:

D.1.1 Nitrogen Oxides (NO_x) From the Boilers [326 IAC 2-2, 326 IAC 2-3 and 326 IAC 2-8]

The total usage of natural gas as the primary fuel for all eight (8) boilers including the insignificant units (i.e., boilers 293-1, 229-1, and 229-2) shall be limited to 738.0 million cubic feet per twelve consecutive month period, **rolled on a monthly basis**, with compliance determined at the end of each month (Note: For every gallon of #2 fuel oil used, 200 cubic feet of natural gas shall be deducted from this limit.). This fuel usage limitation is necessary to limit the potential to emit NO_x to 36.9 tons per 12 consecutive month period, rolled on a monthly basis from all boilers only. This limit shall make the Prevention of Significant Deterioration (326 IAC 2-2) and Part 70 (326 IAC 2-7) rules not applicable.

Comment 3:

Draft Permit Sections D.1.13, D.1.14 and D.1.15

Lilly feels that the language in these sections is confusing and may result in implementation issues. Therefore, we recommend that these sections be combined into Section D.1.13 and that the following language be inserted in the permit:

D.1.13 NEW SOURCE PERFORMANCE STANDARDS FOR SMALL INDUSTRIAL STEAM GENERATING UNITS [40 CFR 60, Subpart Dc], NSPS General Provisions [40 CFR Subpart A], and [326 IAC 12-1].

The Permittee shall comply with the applicable provisions for 40 CFR Part 60, Subpart A and Subpart Dc, which are incorporated by reference as 326 IAC 12-1, for the one (1) boiler identified as 254-R.

(a) *Standards for Sulfur Dioxide and Particulate Matter (Opacity) [40 CFR 60.42c(d) and 40 CFR 60.43c(d)].*

- (1) Distillate oil must meet the ASTM [D396] specifications for numbers 1 or 2 fuel oil: Maximum sulfur content per shipment: 0.5% by weight; and
- (2) Visible emissions from the boiler shall not exceed twenty percent opacity (6-minute average) except during one six-minute period in any one hour in which visible emissions shall not exceed twenty seven percent opacity as determined by EPA Method 9 [40 CFR Part 60, Appendix A]. This condition applies at all times except during startup, shutdown, and malfunction.

(b) *Notifications [40 CFR 60.7, 40 CFR 60.48c(a) and 326 IAC 3-6-2(a)]*

Initial Notifications - The Permittee shall furnish written notification for:

- (1) The actual date on which construction of the boiler commenced within 30 days after such date;
- (2) The actual start-up date of the boiler within 15 days after such date; and
- (3) The anticipated date of performance test (opacity observations) of the boiler postmarked at least 35 days prior to such date [326 IAC 3-6-2(a)].

Copies of the written notifications referenced in items 1 through 3 above are to be sent to: _____

(c) *Initial Compliance Determination [40 CFR Part 60.8, 40 CFR Part 60.44c(h) or 60.45c(a)(8) and 326 IAC 3-6-4(b)]*

- (1) The initial performance tests for opacity and sulfur content shall be conducted within 60 days after the maximum production rate has been achieved burning fuel oil, but no later than 180 days after initial startup of the facility on fuel oil. Advance notification shall be submitted to IDEM at least 35 days prior to commencement of testing.

- (2) The Permittee shall submit the following information within 45 days of completion of the testing:
 - (A) Sulfur Dioxide
 - (1) Owner certification; and
 - (2) Certification from Supplier as described in 40 CFR 60.48c(f)(1-3)
 - (B) Opacity: Results of Reference Method 9 visible emissions test.

(d) *Records*

- (1) On Site Records - The Permittee shall maintain records of data as necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:
 - (A) Annual consumption of natural gas in cubic feet shall be calculated monthly as the sum of each consecutive 12 month period;
 - (B) Annual consumption of # 2 fuel oil by boiler in gallons, calculated monthly as the sum of the previous consecutive twelve month period;
 - (C) Scheduled and unscheduled maintenance, and operator training; and
 - (D) Results of all stack tests, visible emission evaluations, and performance evaluations;
 - (E) All fuel supplier certifications including the following information:
40 CFR 60.48c(f)(1) Fuel Certification - The Permittee shall obtain a certification from the fuel supplier with each shipment of # 2 fuel oil. Each fuel supplier certification shall include the following:
 - (1) The name of the fuel supplier;
 - (2) A statement from the oil supplier that the distillate oil complies with the ASTM specifications D396[-78] for numbers 1 or 2 fuel oil;
 - (3) Location of the sample taken (as delivered vs. bulk tank); and
 - (4) The sulfur content of the distillate oil.

(e) *Reporting*

- (1) Initial Performance Tests shall be submitted to _____ within 45 days after completion of testing. [40 CFR 60.48c(b) and 326 IAC 3-6-4(b)]; and
- (2) Quarterly Reports due 30 days after the end of the calendar quarter:
 - (A) If no shipments of distillate oil were received during the reporting

period, the report shall consist of the dates included in the reporting period and a statement that no oil was received during the 3-month period; or

- (B) If distillate oil was received during the reporting period, the reports shall include:
- (1) Dates included in the period;
 - (2) A copy of all fuel supplier certifications for all shipments of distillate oil received during the period or a summary from each fuel supplier;
 - (3) Reporting and Record keeping of 30 day average sulfur content in the fuel [40 CFR 60.48c(d), (e), (f)]; and
 - (4) A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility. [40 CFR Part 60.48c(e)11].

Response 3:

Conditions D.1.13 through D.1.15 are included in the permit due to the applicability of the requirements of the New Source Performance Standard, 40 CFR 60, Subpart Dc. Condition D.1.13 cites the applicable general provisions and Condition D.1.15 includes the one time action deadlines, based upon the rule, to help the Permittee and the inspectors. Condition D.1.14 contains the requirements of the rule that are applicable to the source. The language in Condition D.1.14 is the exact language from the New Source Performance Standard, 40 CFR 60, Subpart Dc, but only includes those portions of the rule applicable to the facilities at this source, with the exception of 40 CFR 60.41c, Definitions, which is included in its entirety. IDEM, OAQ, prefers that the permit language reflect the exact language in the federal rule to minimize lawsuits due to discrepancies between the federal rule language and the permit language. For clarity, Condition D.1.13 has been revised as follows:

D.1.13 General Provisions Relating to NSPS Dc [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 12-1-1 for the one (1) boiler identified as 254-R.
- (b) **Pursuant to 40 CFR 60.10, 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,
Indianapolis, Indiana 46204-2251**

Comment 4:

Finally, it is our understanding that you will include in the Addendum to the Technical Support Document a discussion of the possibility that the rental boiler Lilly obtains from the vendor in the future may not be the same type of unit received initially. Therefore, Lilly requests that IDEM change the unit description language in Section D.1 as follows (added language in italics) to address this issue.

- (a) Five (5) natural gas/no.2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, 254-4, and 254-R) with heat input capacities of 51.0, 63.0, 67.0, 78.0, and 82.3 million Btu per hour, respectively. These boilers do not have any air pollution control devices and each one exhausts through one (1) stack 254-1, 254-2, 254-3, 254-4, and 254-R, respectively. Under NSPS Subpart Dc, the one (1) boiler, identified as 254-R, is considered an affected facility because construction of the boiler commenced after June 9, 1989 and the boiler has a maximum design heat input capacity of 100 million Btu per hour or less, but greater than or equal to 10 million Btu per hour. *Boiler 254-R is a rental boiler. Thus, the boiler may not be on site at all times and may be replaced with a boiler of the same or lower heat input capacity.*

Response 4:

IDEM, OAQ, understands that the proposed boiler, identified as 254-R, will be a rental boiler. However, the unit description in Section D.1 does not constitute an enforceable condition and the proposed language may be misleading if a modification requires a revision to the FESOP. If the Permittee anticipates a modification that involves replacing an emissions unit, the Permittee shall submit an application for an amendment or revision to the permit in accordance with 326 IAC 2-8-10 (Administrative permit amendments) or 326 IAC 2-8-11.1 (Permit revisions), as appropriate.

Indiana Department of Environmental Management Office of Air Quality

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

Source Background and Description

Source Name:	Eli Lilly and Company - Greenfield Laboratories
Source Location:	2001 West Main Street, Greenfield, IN 46140
County:	Hancock
SIC Code:	2834
Operation Permit No.:	F 059-12151-00001
Operation Permit Issuance Date:	May 2, 2002
Significant Permit Revision No.:	SPR 059-21913-00001
Permit Reviewer:	CarrieAnn Paukowits

The Office of Air Quality (OAQ) has reviewed a significant permit revision application from Eli Lilly and Company - Greenfield Laboratories relating to the construction and operation of the following emission units and pollution control devices:

One (1) natural gas-fired boiler, identified as 254-R, using No. 2 fuel oil as a backup fuel, heat input capacity: 82.3 million British thermal units per hour.

The boiler will be included in the existing fuel usage limitations in the permit. The applicant has also requested the following changes:

- (a) Two (2) No. 2 fuel oil-fired emergency generators, identified as B409 and 291, have been removed from this source. The applicant requested these generators be removed from the permit.
- (b) Emergency Generator 252 has been redesignated Emergency Generator 253. References to the generator are revised in the permit.
- (c) All degreasing operations have been removed from this source. The applicant requested that the degreasing be removed from the permit.
- (d) The pharmaceutical production facility (Building 409) has been removed from this source. The applicant requested that the facility be removed from the permit.
- (e) The applicant requested changes to Conditions D.2.1 and D.2.2 to reflect the current requirements of 326 IAC 4-2-2 and 326 IAC 9, and a correction to D.2.6.

IDEM, OAQ, is also proposing the additional changes, described in Changes 7 through 15 of the "Proposed Changes" section of this document.

History

On October 18, 2005, Eli Lilly and Company - Greenfield Laboratories submitted an application to the OAQ requesting to add a boiler to their existing plant and requesting the other changes shown above. Eli Lilly and Company - Greenfield Laboratories was issued a Federally Enforceable State Operating Permit (FESOP) on May 2, 2002. Administrative Amendments 059-17791-00001, 059-18173-00001, 059-19235-00001, and 059-20922-00001, were issued on July 11, 2003, February 20, 2004, June 30, 2004, and April 4, 2005, respectively.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
254-R	Boiler 254-R	20.5	4.0	27,350	510

Recommendation

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

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

An application for the purposes of this review was received on October 18, 2005.

Emission Calculations

See pages 1 through 5 of Appendix A of this document for detailed emissions calculations.

Potential To Emit of Revision

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source 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.

This table reflects the PTE before controls for this revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	5.15
PM ₁₀	8.50
SO ₂	183
VOC	1.98
CO	30.3
NO _x	51.5

HAPs	Potential To Emit (tons/year)
Arsenic	0.001
Beryllium	0.001
Cadmium	0.001
Chromium	0.001
Lead	0.003
Mercury	0.001
Manganese	0.002
Nickel	0.001
Selenium	0.005
Formaldehyde	0.027
Hexane	0.648
Toluene	0.001
Dichlorobenzene	0.0004
TOTAL	0.680

Justification for Revision

The FESOP is being revised through a FESOP Significant Permit Revision. This revision is being performed pursuant to 326 IAC 326 IAC 2-8-11.1(f)(1) since the potential to emit SO₂ and NO_x from this revision is greater than twenty five (25) tons per year.

County Attainment Status

The source is located in Hancock County.

Pollutant	Status
PM _{2.5}	Attainment
PM ₁₀	Attainment
SO ₂	Attainment
NO ₂	Attainment
1-Hour Ozone	Attainment
8-Hour Ozone	Basic nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Hancock County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset.
- (b) Hancock County has been classified as unclassifiable or attainment for PM_{2.5}. 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 PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions.
- (c) Hancock County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 2-3, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	7.30
PM ₁₀	9.17
SO ₂	98.9
VOC	5.40
CO	39.5
NO _x	97.6

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more, and it is not one of the twenty-eight (28) listed source categories, and no nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more.
- (b) These emissions are based upon the calculations for Administrative Amendment 059-18173-00001, adjusted for emissions units already added or removed from the source since that amendment was issued.

Potential to Emit of Revision After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this FESOP revision.

Process/facility	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Proposed Revision (Boiler 254-R)	3.40	5.77	82.8	1.98	30.3	36.9	0.680 total
All boilers before and after Revision	3.40	5.77	82.8	2.03	31.0	36.9	< 1
Entire Existing Source before and after Revision	7.30	9.17	98.9	5.40	39.5	97.6	9.9 HCl < 25 total
PSD or Offset Threshold Level	100	100	100	100	100	100	-

- (a) This revision to an existing minor stationary source is not major because the emission increases are less than the PSD and Emission Offset threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply, and pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.
- (b) The potential to emit from the proposed boiler is limited by the fuel usage limitations existing in the permit. Therefore, the potential to emit of the source will not increase as a result of this revision.
- (c) This revision to the existing FESOP will not change the status of the stationary source because the emissions from the entire source will still be limited to less than the Part 70 major source thresholds.

Federal Rule Applicability

- (a) The proposed revision is subject to 326 IAC 12, (40 CFR 60.40c, Subpart Dc), Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units because the boiler is to be constructed after June 9, 1989 and it 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). Non-applicable portions of the NSPS will not be included in the permit. The boiler is subject to the following portions of 40 CFR 60, Subpart Dc:
 - (1) 40 CFR 60.40c
 - (2) 40 CFR 60.41c
 - (3) 40 CFR 60.42c (d), (g), (h)(1), (i) and (j)
 - (4) 40 CFR 60.43c (c) and (d)
 - (5) 40 CFR 60.44c (g) and (h)
 - (6) 40 CFR 60.45c (a)(8)
 - (7) 40 CFR 60.46c (e)
 - (8) 40 CFR 60.48c (a), (b), (d), (e)(1), (e)(2), (e)(4), (e)(5), (e)(11), (f)(1), (g), (i) and (j)

The provisions of 40 CFR 60 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40

CFR 60 Subpart Dc.

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this proposed revision.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, are not included in the permit for this source. This source is not a major source of HAPs.

State Rule Applicability - Individual Facilities

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In the existing FESOP, the potential to emit SO₂ is limited to less than 100 tons per year from the entire source. The proposed boiler will be included in the limitations existing in the permit. Therefore, the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-3 (Emission Offset)

In the existing FESOP, the potential to emit NO_x is limited to less than 100 tons per year from the entire source. The proposed boiler will be included in the limitations existing in the permit. Therefore, the potential to emit NO_x is still less than 100 tons per year, and the requirements of 326 IAC 2-3, Emission Offset, are not applicable.

326 IAC 2-8 (FESOP)

- (a) The unrestricted potential NO_x, SO₂ and CO emissions are greater than 100 tons per year from the entire source. The existing FESOP limits the potential to emit NO_x and SO₂ to less than 100 tons per year. The proposed boiler will be included in the limitations existing in the permit. Therefore, the potential to emit NO_x and SO₂ are still less than 100 tons per year. The fuel usage limitations in the permit also result in a potential to emit CO less than 100 tons per year (see page 5 of Appendix A and the table under "Potential to Emit of Revision After Issuance" in this document). Therefore, the requirements of 326 IAC 2-7, Part 70, are not applicable. A condition will be added to the permit indicating that the applicant must comply with the SO₂ and NO_x fuel usage limitations in order to limit the potential to emit CO to less than 100 tons per year.
- (b) The unrestricted potential individual HAP emissions (HCl) are greater than 10 tons per year from the entire source. The existing FESOP limits the potential to emit each individual HAP to less than 10 tons per year. This revision will not increase the potential to emit HAPs. Therefore, the requirements of 326 IAC 2-7, Part 70, are still not applicable.

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

The one (1) proposed boiler is subject to the requirements of 326 IAC 6-2-4. Pursuant to 326 IAC 6-2-4, particulate emissions from the boiler shall be limited by the following equation:

$$Pt = 1.09/Q^{0.26}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input.
Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is

contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

There are seven (7) boilers already existing at this source (254-1, 254-2, 254-3, 254-4, 293-1, 229-1 and 229-2), with a total heat input capacity of 265.3 million British thermal units per hour. Thus, Q is 347.6 million British thermal units per hour. $Pt = 1.09/(347.6)^{0.26} = 0.24 \text{ lb/mmBtu}$.

Based upon the emission factors in AP-42, the particulate emissions from the boiler are 1.90 lbs/MMCF or 0.0019 lbs/MMBtu when operating on natural gas and 0.014 lb/MMBtu when operating on No. 2 fuel oil. Therefore, the boiler will comply with this rule.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The potential SO₂ emissions from the proposed boiler are greater than ten (10) pounds per hour and twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 7-1.1 are applicable. Pursuant to 326 IAC 7-1.1-2, Sulfur dioxide emissions shall be limited to five-tenths (0.5) pound per mmBtu when using No. 2 fuel (distillate) oil.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The proposed boiler does not have petroleum refining, ferrous metal smelting or refuse incineration and burning emissions. Therefore, the requirements of 326 IAC 9-1 are not applicable.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

This source is not located in Clark or Floyd County. Therefore, the requirements of 326 IAC 10-1 are not applicable.

326 IAC 10-4 (NO_x Budget Trading Program)

This unit is not subject to 326 IAC 10-4-1 because it is not an "Electricity Generating Unit" or "EGU" as defined in 326 IAC 10-4-2(16) and it is not a "large affected unit" as defined in 326 IAC 10-4-2(27). The unit is not an EGU because it does will not serve a generator that has a nameplate capacity greater than twenty-five (25) megawatts and produces electricity for sale under a firm contract to the electric grid. The unit is not a large affected unit because it does will not have a maximum design heat input greater than two-hundred fifty million (250,000,000) British thermal units per hour.

Compliance Requirements

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

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

Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

The one (1) proposed boiler has applicable compliance monitoring conditions as specified below:

Visible emission notations of the boiler, 254-R, stack exhausts shall be performed once per day during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable 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.

These monitoring conditions are necessary because the boiler must operate properly to ensure compliance with 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations) and 326 IAC 2-8 (FESOP).

Testing Requirements

The only testing required by this revision is any testing required by the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc.

Air Quality Impacts from Minor Sources

Modeling Overview

Pursuant to 326 IAC 2-1.1-5, IDEM, OAQ, has conducted a modeling analysis of the Limited Potential to Emit (PTE) criteria pollutants from this proposed boiler to estimate whether the Limited PTE criteria pollutants will cause or contribute to a violation of any National Ambient Air Quality Standard (NAAQS).

Modeling Results – Criteria Pollutants

The modeling results indicate that the Limited PTE criteria pollutants from this boiler will not exceed the National Ambient Air Quality Standards (NAAQS).

Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in bold):

Change 1:

The equipment listed in Sections A.2 and A.3 has been revised as follows:

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

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

- (a) ~~Four (4)~~ **Five (5)** boilers

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
4 5	natural gas/no. 2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, and 254-4, and 254-R) with heat input capacities of 51.0, 63.0, 67.0, and 78.0, and 82.3 million Btu per hour, respectively Under NSPS Subpart Dc, the one (1) boiler, identified as 254-R, is considered an affected facility because construction of the boiler commenced after June 9, 1989 and the boiler has a maximum design heat input capacity of 100 million Btu per hour or less, but greater than or equal to 10 million Btu per hour.	none	254-1, 254-2, 254-3, and 254-4, and 254-R, respectively

(b) One (1) incinerator

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
1	natural gas-fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour.	none	241-1

(c) ~~One (1) 500 hours per year no. 2 fuel oil fired back-up generator and one (1) 200 hours per year emergency generator~~

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
4	No. 2 fuel oil fired back-up generator (ID# B409) with a heat input capacity of 5.63 million Btu per hour	none	0
1	No. 2 fuel oil fired emergency generator (ID #EMG-TOX) with a heat input capacity of 19.3 million Btu per hour	none	0

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

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

- (a) Three (3) natural gas-fired boilers (ID#s 293-1, 229-1, and 229-2), with heat input capacities less than or equal to 2.1 million Btu per hour (Note: These insignificant activities have applicable requirements in section D.1).
- (b) ~~Seven (7)~~ **Six (6)** no. 2 fuel oil-fired emergency generators (ID#s 226, ~~252~~ **253**, 241-out,

- 254a, 254b, ~~291~~, and 418), each with a heat input capacity less than or equal to 3.75 million Btu per hour.
- (c) Fifteen (15) natural gas-fired emergency generators (ID#s 206, 223, 229, 235, 241-penthouse, 244, 245, 246, 276, 288, 292, 296, 417, 428-east, and 428-west), each with a heat input capacity less than or equal to 0.66 million Btu per hour.
 - (d) Three (3) propane-fired emergency generators (ID#s 212, 290, and 248), each with a heat input capacity less than or equal to 0.42 million Btu per hour.
 - (e) Two (2) no. 2 fuel oil fired emergency fire pump engines (ID#s FP-B204 and FP-B208), each with a heat input capacity of 0.82 million Btu/hr. (Note: These insignificant activities have applicable requirements in D.4).
 - (f) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
 - (g) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
 - (h) One (1) fuel oil storage tank (ID# 254-F) with a capacity of 250,000 gallons;
 - ~~(i) Any degreasing operation that does not exceed 145 gallons of solvent usage per 12 months and not subject to 326 IAC 20-6, including, but not limited to the following:
 - ~~(1) One (1) machine shop cold solvent cleaner constructed in 1982;~~
 - ~~(2) Two (2) Building G409 cold solvent cleaners constructed after 1990; and~~
 - ~~(3) One (1) Building 254 cold solvent cleaner constructed after 1990.~~(Note: These insignificant activities have applicable requirements in D.5).~~
 - ~~(j)~~(i) Activities associated with the transportation and treatment of sanitary sewage (on-site sewage treatment facility);
 - ~~(k)~~(j) Asbestos abatement projects regulated by 326 IAC 14-10;
 - ~~(l)~~(k) On-site fire and emergency response training approved by IDEM;
 - ~~(m)~~(l) Laboratories as defined in 326 IAC 2-7-1;
 - ~~(n)~~(m) Farm operations; and
 - ~~(o)~~ A pharmaceutical production facility (Building 409).
 - ~~(p)~~(n) One (1) diesel reciprocating internal engine emergency generator, rated at 166 horsepower (hp), identified as EG210;
 - ~~(q)~~(o) One (1) natural gas-fired reciprocating internal engine emergency generator, rated at 415 hp, identified as EG239;
 - ~~(r)~~(p) One (1) diesel generator rated at 1,200 hp, identified as EG220; and
 - ~~(s)~~(q) One (1) diesel generator rated at 2,836 hp, identified as LC45.

Change 2:

Section D.1 has been revised to include the proposed boiler and all applicable conditions, as follows:

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) ~~Four (4)~~ **Five (5)** natural gas/no.2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, and 254-4, and **254-R**) with heat input capacities of 51.0, 63.0, 67.0, and 78.0, and **82.3** million Btu per hour, respectively. These boilers do not have any air pollution control devices and each one exhausts through **one (1)** stack 254-1, 254-2, 254-3, and 254-4, and **254-R**, respectively. **Under NSPS Subpart Dc, the one (1) boiler, identified as 254-R, is considered an affected facility because construction of the boiler commenced after June 9, 1989 and the boiler has a maximum design heat input capacity of 100 million Btu per hour or less, but greater than or equal to 10 million Btu per hour.**

Insignificant activity:

- (a) three (3) natural gas-fired boilers (ID#s 293-1, 229-1 and 229-2) with heat input capacities less than or equal to 2.1 million Btu per hour;

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

D.1.1 Nitrogen Oxides (NO_x) From the ~~Nine~~ Boilers [326 IAC 2-2, **326 IAC 2-3 and ~~40 CFR 52.24~~ and 326 IAC ~~2-7 2-8~~]**

The total usage of natural gas as the primary fuel for all ~~seven (7)~~ **eight (8)** boilers including the insignificant units (i.e., boilers 293-1, 229-1, and 229-2) shall be limited to 738.0 million cubic feet per twelve consecutive month period, ~~rolled on a monthly basis~~ **with compliance determined at the end of each month** (Note: For every gallon of #2 fuel oil used, 200 cubic feet of natural gas shall be deducted from this limit.). This fuel usage limitation is necessary to limit the potential to emit NO_x to 36.9 tons per 12 consecutive month period, rolled on a monthly basis from all boilers only. This limit shall make the Prevention of Significant Deterioration (326 IAC 2-2 and ~~40 CFR 52.24~~) and Part 70 (326 IAC 2-7) rules not applicable.

D.1.3 Sulfur Dioxide (SO₂) Emissions From Boilers 254-1, 254-2, and 254-3, and **254-R [326 IAC 7-1.1-2]**

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the combustion of #2 distillate fuel oil for boilers 254-1, 254-2, and 254-3, and **254-R** shall each be limited to 0.5 pounds per million BTU heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.5 Sulfur Dioxide (SO₂) Emissions From the ~~Nine~~ Boilers [326 IAC 2-2 and ~~40 CFR 52.24~~ and 326 IAC ~~2-7 2-8~~]

The total usage of no.2 fuel oil for all ~~seven (7)~~ **eight (8)** boilers including the insignificant units (i.e., boilers 293-1, 229-1, and 229-2) shall be limited to 3,332.0 kilogallons per twelve (12) consecutive month period, rolled on a monthly basis. This fuel usage limitation is necessary to limit the potential to emit SO₂ to 82.8 tons per 12 consecutive month period rolled on a monthly basis from the boilers only. In order for the source-wide SO₂ emissions to not exceed the Part 70 emission threshold of 100 tons per year, the sulfur content of the no. 2 fuel shall not exceed 0.35 % sulfur content. Compliance with the SO₂ limit shall make the Prevention of Significant Deterioration (326 IAC 2-2 and ~~40 CFR 52.24~~) and Part 70 (326 IAC 2-7) rules not applicable.

D.1.6 Particulate Matter (PM) [326 IAC 6-2-2(b)(c) and 326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-2(b), the particulate matter emissions from the existing boilers; identified as 254-1 and 254-2, located in Hancock County which were existing and in operation on or before June 8, 1972 shall each not exceed 0.39 pound per million Btu (lb/mmBtu).
- (b) Pursuant to 326 IAC 6-2-2(c), the particulate matter emissions from boiler 254-3 located in Hancock County, which began operation after June 8, 1972 and prior to September 21, 1983 shall not exceed 0.35 lb/mmBtu.
- (c) Pursuant to 326 IAC 6-2-4, the particulate matter emissions from the existing boiler; identified as 293-1, which was constructed after September 21, 1983 shall not exceed 0.25 lb/mmBtu.
- (d) Pursuant to Construction Permit No.: 30-07-93-0074, the particulate matter emissions from boiler 254-4 shall not exceed 0.015 lb/mmBtu.
- (e) **Pursuant to 326 IAC 6-2-4, the PM emissions from the one (1) 82.3 million British thermal unit per hour boiler, identified as 254-R shall not exceed 0.24 pound per million British thermal units. This limitation is based upon the following equation:**

$$Pt = 1.09/Q^{0.26}$$

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

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

D.1.7 Carbon Monoxide (CO) Emissions From the Boilers [326 IAC 2-8]

The fuel usage limitations in Conditions D.1.1 and D.1.5 shall limit the potential to emit CO from the eight (8) boilers to 31.0 tons per year and the potential to emit CO from the entire source to less than 100 tons per year. Therefore, the requirements of Part 70 (326 IAC 2-7) are not applicable.

D.1.78 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for boilers IDs 254-1, 254-2, 254-3, and 254-4, **and 254-R** pertaining to the combustion of fuel oil only.

D.1.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

~~The Permittee is not required to test these boilers by this permit.~~

D.1.10 Visible Emissions Notations

- (a) Visible emission notations of the boilers IDs 254-1, 254-2, 254-3, and 254-4 **and 254-R** stack exhausts shall be performed once per ~~shift~~ **day** during normal daylight operations while combusting fuel oil. 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. Failure to take response steps in accordance with Section C - Compliance Response Plan – Preparation, Implementation, Records and Reports shall be considered a ~~violation of~~ **deviation from** this permit.

D.1.11 Record Keeping Requirements

- (a) The Permittee shall maintain monthly records of the following values:
 - (1) Amount of fuel oil used (for all boilers);
 - (2) Amount of natural gas used (for all boilers);
 - (3) Average sulfur content of fuel oil used (for all boilers);
 - (4) Average higher heating value of the fuel oil used (for boiler IDs 254-1, 254-2, 254-3, ~~and~~ 254-4, **and 254-R** only); and
 - (5) Average sulfur dioxide emission rate (expressed in pounds per million Btu)(for boilers 254-1, 254-2, 254-3, ~~and~~ 254-4, **and 254-R** only).

Items (1) and (2) shall be used to determine compliance with Condition D.1.1. Items (1) through (5) shall be used to determine compliance with condition D.1.3 and D.1.4. Items (1) and (3) shall be used to determine compliance with condition D.1.5.

Records of sulfur content and higher heating value can be determined by information as obtained from the vendor. As long as the certified vendor analysis indicates that the sulfur content is less than 0.35 percent and the heating value of the fuel oil delivered is greater than 137,000 Btu per gallon, the Permittee can note "less than 0.35 percent" and "greater than 137,000 Btu per gallon" for items (3) and (4) respectively.

- (b) To document compliance with Condition D.1.10, the Permittee shall maintain records of visible emission notations of the boiler IDs 254-1, 254-2, 254-3, ~~and~~ 254-4, **and 254-R** stacks while combusting no. 2 fuel oil.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.12 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.1.1, ~~and~~ D.1.5 **and D.1.7** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).

- (b) The Permittee shall certify, on the form provided, that natural gas was fired in the boiler at all times during each quarter. Alternatively, the Permittee shall report the number of days during which an alternate fuel was burned during each quarter.

New Source Performance Standards (NSPS) Requirements [326 IAC 12-1]

D.1.13 General Provisions Relating to NSPS Dc [326 IAC 12-1] [40 CFR Part 60, Subpart 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 12-1-1 for the one (1) boiler identified as 254-R.

D.1.14 NSPS Dc Requirements [40 CFR Part 60, Subpart Dc] [326 IAC 12-1]

Pursuant to CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart Dc for the one (1) boiler identified as 254-R as specified as follows.

§ 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 Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/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 which meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO₂) 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.

§ 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 ch a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society for Testing and Materials in ASTM D388–77, “Standard Specification for Classification of Coals by Rank” (incorporated by reference—see §60.17); coal refuse; and petroleum coke. Synthetic fuels derived from coal for the purpose of creating useful heat, including but not limited to solvent-refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are 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 D396-78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils" (incorporated by reference—see §60.17).

Dry flue gas desulfurization technology means a sulfur dioxide (SO₂) control 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 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 SO₂ control 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 40 CFR 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 D1835–86, 87, 91, or 97, “Standard Specification for Liquefied Petroleum Gases” (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 SO₂ emissions (nanograms per joule [ng/J], or pounds per million Btu [lb/million Btu] 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 D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (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 SO₂ control 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 particulate matter (PM) or SO₂.

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

(d) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, 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 SO₂ in excess of 215 ng/J (0.50 lb/million Btu) 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.

(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)(1), (2), or (3), as applicable.

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

(i) The SO₂ emission 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

(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, 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 million Btu/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.

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

(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 SO₂ standards 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)(1), (2), or (3), 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.

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

§ 60.46c Emission monitoring for sulfur dioxide

(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 SO₂ standards based on fuel supplier certification, as described under §60.48c(f) (1), (2), or (3), as applicable.

§ 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, anticipated startup, 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 SO₂ emissions. 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 SO₂ emission 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.**
- (d) The owner or operator of each affected facility subject to the SO₂ emission 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 SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c 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 SO₂ emission rate (nj/J or lb/million Btu), 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.**
 - (4) Identification of any steam generating unit operating days for which SO₂ or diluent (oxygen or carbon dioxide) 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.**
- (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), or (3) 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; and**
 - (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c.**
 - (g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.**
 - (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.

D.1.15 One Time Deadlines Relating to NSPS Dc

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Initial Performance Tests	40 CFR 60.45c(a)	Boiler 254-R	within 60 days after achieving the maximum production rate at which the boiler will be operated, but not later than 180 days after initial startup
Notification of the date of construction or reconstruction	40 CFR 60.48c(a)	Boiler 254-R	no later than 30 days after such date
Notification of the date of anticipated startup and actual startup	40 CFR 60.48c(a)	Boiler 254-R	within 15 days after such date

Change 3:

Conditions D.2.1 and D.2.2 have been revised to reflect the current version of the rules, as requested, and Condition D.2.6 has been corrected, as follows:

D.2.1 Particulate Matter [326 IAC 4-2]

Pursuant to 326 IAC 4-2 (Incinerator Rule), the incinerator shall:

- (a) consist of primary and secondary chambers or the equivalent;
- (b) be equipped with a primary burner unless burning **only** wood products;
- (c) comply with 326 IAC 5-1 and 326 IAC 2;
- (d) be maintained, **operated, and burn waste in accordance with:** ~~properly as specified by~~
 - (1) the manufacturer's specifications; or
 - (2) an operation and maintenance plan as specified in 326 IAC 4-2-2(c) as follows:
 - (A) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in Condition D.2.1(e) and include the following:
 - (i) Procedures for receiving, handling, and charging waste.
 - (ii) Procedures for incinerator startup and shutdown.
 - (iii) Procedures for responding to a malfunction.
 - (iv) Procedures for maintaining proper combustion air supply levels.

- (v) **Procedures for operating the incinerator and associated air pollution control systems.**
 - (vi) **Procedures for handling ash.**
 - (vii) **A list of wastes that can be burned in the incinerator.**
- (B) **Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.**
- (C) **The operation and maintenance plan must be readily accessible to incinerator operators.**
- (D) **The owner or operator of the incinerator shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section; and approved by the commissioner.**
- ~~(e) be operated according to the manufacturer's recommendation and only burn waste approved by the commissioner;~~
- ~~(f) comply with other state and/or local rules or ordinances regarding the operation of incinerators;~~
- ~~(g) be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, noxious odors are prevented;~~
- ~~(h)(e) to not emit particulate matter (PM) emissions in excess of 0.3 pounds per 1,000 pounds of dry exhaust gas at **under** standard conditions corrected to 50% excess air; and~~
- ~~(i) not create a nuisance or a fire hazard.~~

If any of the **requirements above are not met, then the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.** ~~above result, the burning shall be terminated immediately.~~

D.2.2 Carbon Monoxide (CO) [326 IAC 9]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission **Rule Limits**), the **Permittee shall not operate the** Consumat incinerator (ID#241-1) ~~shall not discharge carbon monoxide unless the waste gas stream is burned in a direct-flame afterburner or **secondary chamber.** is controlled by other means approved by the Commissioner. The Consumat incinerator, as a multi-chamber incinerator, is an approved design by the Commissioner.~~

D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test ~~these~~ **this** incinerators by this permit.

Change 4:

Since the one (1) back-up generator, identified as B409, has been removed, Section D.3 has been revised, and the Quarterly Report Form for that unit has been removed, as follows:

SECTION D.3 FACILITY OPERATION CONDITIONS

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

~~(c)(1) One (1) No. 2 fuel oil fired back-up generator (ID# B409) with a heat input capacity of 5.63 million Btu per hour.~~

~~(2) One (1) No. 2 fuel oil fired emergency generator (ID #EMG-TOX) with a heat input capacity of 19.3 million Btu per hour.~~

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

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

~~D.3.1 Sulfur Dioxide (SO₂) and Nitrogen Oxides (NOx) [326 IAC 2-2 and 40 CFR 52.21 and 326 IAC 2-7]~~

~~The back-up generator (ID# B409) shall have an annual hours of operation limited to 500 hours per twelve (12) consecutive month period, rolled on a monthly basis. Compliance with the limit in the hours of operation shall make 326 IAC 2-2 and 40 CFR 52.21 the Prevention of Significant Deterioration, and 326 IAC 2-7, Part 70 Permit Program not applicable.~~

~~Compliance Determination Requirements~~

~~D.3.2 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]~~

~~The Permittee is not required to test this back-up generator and the emergency generator by this permit.~~

~~Record Keeping and Reporting Requirements [326 IAC 2-8-4]~~

~~D.3.3 Record Keeping Requirements~~

~~To document compliance with Condition D.3.1 the Permittee shall maintain records of the times that the B409 back-up generator is operating to document that this generator is not operating at more than 500 hours per twelve (12) consecutive month period, rolled on a monthly basis.~~

~~D.3.4 Reporting Requirements~~

~~A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.~~

~~The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

Change 5:

The degreasing operations have been removed from this source. Therefore, Section D.5 has been removed from the permit, as follows:

SECTION D.5 FACILITY OPERATION CONDITIONS

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

(j) ~~Any degreasing operation that does not exceed 145 gallons of solvent usage per 12 months and not subject to 326 IAC 20-6 including, but not limited to the following:~~

~~(1) One (1) machine shop cold solvent cleaner constructed in 1982; and~~

~~(2) Two (2) Building G409 cold solvent cleaner constructed after 1990.~~

~~(3) One (1) Building 254 cold solvent cleaner constructed after 1990.~~

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

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

D.5.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

~~Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations (one (1) machine shop cold solvent cleaner; two (2) Building G409 cold solvent cleaners and one (1) Building 254 cold solvent cleaner constructed after January 1, 1980, the owner or operator 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 manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.~~

D.5.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

~~(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaner degreasers (two (2) Building G409 cold solvent cleaners and one (1) Building 254 cold solvent cleaner) located anywhere in the state of the types described in subdivision (1)(A) through (1)(C) of 326 IAC 8-2-1(b) and construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:~~

~~(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:~~

- ~~(A) — The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~
- ~~(B) — The solvent is agitated; or~~
- ~~(C) — The solvent is heated.~~
- ~~(2) — Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three tenths (4.3) kiloPascals (thirty two (32) millimeters of mercury or six tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~
- ~~(3) — Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).~~
- ~~(4) — The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.~~
- ~~(5) — Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three tenths (4.3) kiloPascals (thirty two (32) millimeters of mercury or six tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):~~
 - ~~(A) — A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.~~
 - ~~(B) — A water cover when the solvent used is insoluble in, and heavier than, water.~~
 - ~~(C) — Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.~~
- ~~(b) — Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility (two (2) Building G409 cold solvent cleaners) located anywhere in the state of the types described in subdivision (1)(A) through (1)(C) of 326 IAC 8-2-1(b) construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:~~
 - ~~(1) — Close the cover whenever articles are not being handled in the degreaser.~~
 - ~~(2) — Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~
 - ~~(3) — Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~

Compliance Determinations Requirements

~~D.5.3 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]~~

~~The Permittee is not required to test these degreasers by this permit.~~

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

~~D.5.4 Record Keeping and Reporting Requirements~~

~~There are no record keeping and recording requirements necessary for the cold solvent cleaners.~~

Change 6:

The pharmaceutical production facility has been removed from this source. Therefore, Section D.6 has been removed from the permit, as follows:

SECTION 6 FACILITY OPERATION CONDITIONS

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

(p) A pharmaceutical production facility (Building 409)

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

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

~~D.6.1 Particulate Matter (PM) Emission Limit (Process Operations) [326 IAC 6-3]~~

~~Pursuant to 326 IAC 6-3 (Process Operation), the PM emissions from the pharmaceutical production facility (Building 409) shall be limited to 0.551 pounds per hour at a process weight rate less than 100 pounds per hour.~~

Compliance Determinations Requirements

~~D.6.2 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]~~

~~There are no stack testing requirements necessary for the pharmaceutical production facility (Building 409).~~

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

~~D.6.3 Record Keeping Requirements~~

~~There are no record keeping requirements necessary for the pharmaceutical production facility (Building 409).~~

Change 7:

The P.O. Box in the address of the OAQ has been deleted throughout the permit and the ZIP code has been revised as follows:

100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46204-2251 6-6015

Change 8:

Hancock County has been designated as basic nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset. In addition, this source is in one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2 and 326 IAC 2-3, "Fossil fuel-fired steam electric plants of more than two hundred fifty million (250,000,000) British thermal units per hour heat input." Section A.1 has been revised as follows:

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

The Permittee owns and operates a stationary pharmaceutical research source.

Authorized individual: Mark S. Studt, Manager Plant Engineering, Maintenance and Utilities
or
Amy Callahan, Team Leader, Environmental Services
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P.O. Box 708, Greenfield, Indiana 46140
SIC Code: 2834 and 2879
County Location: Hancock County
Source Location Status: **Basic Nonattainment for the 8-hour ozone standard**
Attainment for all **other** criteria pollutants
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source, under PSD and **Emission Offset** Rules;
1 of 28 Source Categories

Change 9:

The duty to supplement an application is not an ongoing requirement after the permit is issued; therefore, (a) has been removed from Condition B.8 (Duty to Supplement and Provide Information). Since Condition B.8(c) already addresses confidentiality, the last sentence of (b) was revised to remove the statement about confidential information, and (c) was updated for clarity. Also, the condition was revised to change a rule reference. Subpart (c) references 326 IAC 17. This rule was repealed by the Air Pollution Control Board on January 26, 2000. The new rule reference has been added. Changes are as follows:

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

~~(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 46204-2254~~

~~The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(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. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ,

~~copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-8-4(5)(E)]~~

- ~~(c) Upon written 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 furnish such records to IDEM, OAQ, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAQ, or the U.S. EPA, to furnish copies of requested records directly to U.S. EPA, and if the Permittee is making a claim of confidentiality regarding the records furnished to EPA, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.~~
- (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 “authorized individual” as defined by 326 IAC 2-1.1-1(1). 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.**

Change 10:

A statement was added to Condition B.11 (Certification) in order to clarify that the certification form may cover more than one document that is submitted as follows:

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

- (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 an authorized individual 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) An authorized individual is defined at 326 IAC 2-1.1-1(1).

Change 11:

IDEM has clarified the Condition B.19 (Operational Flexibility) as follows:

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;

- (2) Any approval required by 326 IAC 2-8-11.1 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 46204-2251

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, ~~on a rolling five (5) year basis~~, all such changes and emissions trading **trades** that are subject to 326 IAC 2-8-15 (b) through (d). ~~and makes~~ **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 2-8-15(b)(2), (c)(1), and (d).

- (b) For each such change described in subsection (a), the required written notification shall include the following:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]

The Permittee may trade **emissions** increases and decreases ~~in emissions in~~ **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 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326

IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

- (e) Back-up 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.

Change 12:

For clarity, additional rule cites have been added to Condition B.21 (Inspection and Entry), as follows:

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-30-3-1]

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 FESOP 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** Have access to and copy, at reasonable times, 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** Inspect, at reasonable times, 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** Sample or monitor, at reasonable times, 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** Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

~~(1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAQ, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAQ, nor an authorized representative, may disclose the information unless and until IDEM, OAQ, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]~~

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

Change 13:

The name of the OAQ section and the phone number has been updated in Condition B.23, as follows:

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (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) 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~~ **4230** (ask for OAQ, ~~Technical Support and Modeling~~ **Billing, Licensing, and Training** Section), to determine the appropriate permit fee.

Change 14:

Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the Condition B.23 reflecting this rule will be incorporated into the permit as follows:

B.23 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [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.

Change 15:

The rule cites for Conditions D.2.3 and D.4.1 have been corrected as follows:

D.2.3 Hydrochloric Acid (HAP) [326 IAC ~~2-7~~ **2-8**]

D.4.1 Nitrogen Oxides (NO_x) [326 IAC 2-2 and 40 CFR 52.21 and 326 IAC ~~2-7~~ **2-8**]

Change 16:

The facility and the parameter on the Quarterly Report Form for the limits in Section D.1 have been revised, as follows, and the requirement to attach a signed certification to the report has been added:

Facility: ~~Four (4)~~ **Five (5)** natural gas/no.2 fuel oil fired boilers (ID#s 254-1, 254-2, 254-3, and 254-4, **and 254-R**) with heat input capacities of 51.0, 63.0, 67.0, and 78.0, **and 82.3** million Btu per hour, respectively.

insignificant activities:

three (3) natural gas-fired boilers (ID#s 293-1, 229-1 and 229-2), with a heat input capacities less than or equal to 2.1 million Btu per hour.

Parameter: Average sulfur content of no. 2 fuel oil, NO_x, and SO₂ **and CO** emissions

Conclusion

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 059-21913-00001.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler**

Company Name: Eli Lilly and Company - Greenfield Laboratories
Address, City IN Zip: 2001 West Main Street, Greenfield, IN 46140
Permit Number: SPR 059-21913-00001
Reviewer: CarrieAnn Paukowits
Application Date: October 18, 2005

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

82.3

721

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.685	2.74	0.216	36.0	1.98	30.3

*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
 Small Industrial Boiler
 HAPs Emissions**

Company Name: Eli Lilly and Company - Greenfield Laboratories
Address, City IN Zip: 2001 West Main Street, Greenfield, IN 46140
Permit Number: SPR 059-21913-00001
Reviewer: CarrieAnn Paukowits
Application Date: October 18, 2005

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.00210	Dichlorobenzene 0.00120	Formaldehyde 0.07500	Hexane 1.80000	Toluene 0.00340
Potential Emission in tons/yr	0.000757	0.000433	0.027036	0.648853	0.001226

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.0011	Chromium 0.0014	Manganese 0.0004	Nickel 0.0021	Total
Potential Emission in tons/yr	0.00018	0.00040	0.00050	0.00014	0.00076	0.680

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
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
Backup Fuel

Company Name: Eli Lilly and Company - Greenfield Laboratories
Address, City IN Zip: 2001 West Main Street, Greenfield, IN 46140
Permit Number: SPR 059-21913-00001
Reviewer: CarrieAnn Paukowits
Application Date: October 18, 2005

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.500
82.3	5150	

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (142.0S)	NOx	VOC	CO
Potential Emission in tons/yr	2.00	3.30	71.0	20.0	0.340	5.00
	5.15	8.50	183	51.5	0.875	12.9

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 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*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

See page 4 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions
Backup Fuel

Company Name: Eli Lilly and Company - Greenfield Laboratories
Address, City IN Zip: 2001 West Main Street, Greenfield, IN 46140
Permit Number: SPR 059-21913-00001
Reviewer: CarrieAnn Paukowits
Application Date: October 18, 2005

HAPs - Metals					
Emission Factor in lb/mmBtu	Arsenic 0.000004	Beryllium 0.000003	Cadmium 0.000003	Chromium 0.000003	Lead 0.000009
Potential Emission in tons/yr	0.0014	0.0011	0.0011	0.0011	0.003

HAPs - Metals (continued)					
Emission Factor in lb/mmBtu	Mercury 0.000003	Manganese 0.000006	Nickel 0.000003	Selenium 0.00002	Total
Potential Emission in tons/yr	0.0011	0.0022	0.0011	0.005	0.018

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
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
Limited PTE for All Boilers

Company Name: Eli Lilly and Company - Greenfield Laboratories
Address, City IN Zip: 2001 West Main Street, Greenfield, IN 46140
Permit Number: SPR 059-21913-00001
Reviewer: CarrieAnn Paukowits
Application Date: October 18, 2005

All Fuel Oil

Potential Throughput S = Weight % Sulfur
kgals/year 0.350

3332

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.00	3.30	49.7 (142.0S)	20.0	0.340	5.00
Potential Emission in tons/yr	3.33	5.50	82.8	33.3	0.566	8.33

All Natural Gas

Potential Throughput
MMCF/yr

738

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.701	2.80	0.221	36.9	2.03	31.0

Combination

Heat Input Capacity
MMBtu/hr

Potential Throughput S = Weight % Sulfur
kgals/year 0.350

3332

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.00	3.30	49.7 (142.0S)	20.0	0.340	5.00
Potential Emission in tons/yr	3.33	5.50	82.8	33.3	0.566	8.33

Potential Throughput
MMCF/yr

72

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.068	0.274	0.022	3.60	0.198	3.02
Total for Combination	3.40	5.77	82.8	36.9	0.764	11.4

Worst Case Limited PTE 3.40 5.77 82.8 36.9 2.03 31.0