



Mitchell E. Daniels, Jr.
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**NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT**

**Preliminary Findings Regarding the Federally Enforceable State Operating Permit
for General Electric-Motor and Industrial Systems in Allen County**

FESOP No: F003-6951-00284

The Indiana Department of Environmental Management (IDEM) has received an application from General Electric-Motor and Industrial Systems located at 2000 Taylor Street, Fort Wayne, Indiana, for a Federally Enforceable State Operating Permit (FESOP). IDEM's Office of Air Quality (OAQ) issues this type of permit to regulate the operation of sources that release air pollutants.

IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow General Electric-Motor and Industrial Systems to continue to operate a stationary electric motor manufacturing plant. If this would operate 365 days a year, 24 hours a day, 7 days a week, it could potentially release 79.9 tons of PM per year, 83.4 tons of PM₁₀ per year, 33.6 ton of SO₂ per year, 47.5 tons of VOC per year, 154.4 tons of CO per year, 529.6 tons of NO_x per year, and 18.7 tons of HAPs. The FESOP will limit emissions to less than 100 tons of NO_x and CO per year. The permit requires production limits and the use of air pollution control equipment to limit the amount of air pollution that can be released.

This draft FESOP does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed or removed. This notice fulfills the public notice procedures to which those conditions are subject.

A copy of the permit application and IDEM's preliminary findings are available at:

Allen County Public Library
200 East Berry Street
Fort Wayne, IN 46802

A copy of the preliminary findings is available on the Internet at: [www.IN.gov/idem/air/permits/Air-Permits Online](http://www.IN.gov/idem/air/permits/Air-PermitsOnline).

How can you participate in this process?

The day after this announcement is published in a newspaper marks the beginning of a 30-day public comment period. During that 30-day period, you may comment on this permit. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this permit. If adverse comments concerning the **air pollution impact** of this permit are received, with a request for a public hearing, IDEM may hold a public hearing. If a public hearing is held, IDEM will make a separate announcement of the date, time, and location of that hearing. At a hearing, you would have an opportunity to submit written comments, make verbal comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation or a request for a public hearing should be sent in writing to IDEM. If you do not want to comment at this time, but would like to be added to IDEM's mailing list to receive notice of future action related to this permit application, please contact IDEM. Please refer to permit number F003-6951-00284 in all correspondence.

To Contact IDEM:

Josiah Balogun
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
(800) 451-6027, ask for extension 4-5257
Or dial directly: (317) 234-5257
E-mail: jbalogun@idem.in.gov

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

What will happen after IDEM makes a decision?

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

If you have any questions please contact Josiah Balogun of my staff at the above address.


Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

For additional information about air permits and how you can participate, please see IDEM's **Guide for Citizen Participation** and **Permit Guide** on the Internet at: www.IN.gov/idem/guides.

NS/JB



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DRAFT

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Thomas W. Easterly
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Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

General Electric-Motor and Industrial Systems 2000 Taylor Street Fort Wayne, Indiana 46802

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

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

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

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

Operation Permit No.: F003-6951-00284	
Issued by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date:

TABLE OF CONTENTS

A. SOURCE SUMMARY.....	5
A.1 General Information [326 IAC 2-8-3(b)]	
A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]	
A.4 FESOP Applicability [326 IAC 2-8-2]	
B. GENERAL CONDITIONS	7
B.1 Definitions [326 IAC 2-8-1]	
B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3 Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 Enforceability [326 IAC 2-8-6]	
B.5 Severability [326 IAC 2-8-4(4)]	
B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]	
B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]	
B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]	
B.12 Emergency Provisions [326 IAC 2-8-12]	
B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]	
B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]	
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]	
B.17 Permit Renewal [326 IAC 2-8-3(h)]	
B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]	
B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]	
B.20 Source Modification Requirement [326 IAC 2-8-11.1]	
B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2] [IC 13-30-3-1]	
B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]	
B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]	
B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]	
C. SOURCE OPERATION CONDITIONS.....	16
Emission Limitations and Standards [326 IAC 2-8-4(1)]	
C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2 Overall Source Limit [326 IAC 2-8]	
C.3 Opacity [326 IAC 5-1]	
C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6 Fugitive Dust Emissions [326 IAC 6-4]	
C.7 Stack Height [326 IAC 1-7]	
C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
Testing Requirements [326 IAC 2-8-4(3)]	
C.9 Performance Testing [326 IAC 3-6]	

Compliance Requirements [326 IAC 2-1.1-11]

- C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

- C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]
- C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]
- C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)]
[326 IAC 2-8-5(1)]

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

- C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]
- C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]
- C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

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

- C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]
- C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

- C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1. EMISSIONS UNIT OPERATION CONDITIONS----- Vanish dip tank and automated trickle applicator 23

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

- D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Compliance Determination Requirements

- D.1.2 Volatile Organic compounds (VOC)

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

- D.1.3 Record Keeping Requirements
- D.1.4 Reporting Requirements

D.2. EMISSIONS UNIT OPERATION CONDITIONS -----Generator 5005 (2 generators)..... 26

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

- D.2.1 FESOP Minor Limit [326 IAC 2-2][326 IAC 2-8-4]

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

- D.2.2 Record Keeping Requirement
- D.2.3 Reporting Requirements

D.3. EMISSIONS UNIT OPERATION CONDITIONS -----Boiler 5001 and Boiler 5004 (4 boilers) .. 27

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

- D.3.1 Particulate Emission Limitations for Sources of indirect Heating [326 IAC 6-2-4]
- D.3.2 General Provisions Relating to New Source Performance Standards [326 IAC 21-1][40 CFR 60, Subpart A]
- D.3.3 Standard of Performance for Small Industrial-Commercial Institutional Steaming Generating Units [326 IAC 12][40 CFR 60, Subpart Dc]

D.4. EMISSIONS UNIT OPERATION CONDITIONS-----Insignificant Activities..... 32

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

D.4.1 Particulate Emission Limitation for Manufacturing Processes[326 IAC 6-3-2]

Compliance Determination Requirements

D.4.2 Particulate Matter (PM)

Certification Form 34
Emergency Occurrence Form 35
Natural Gas Fired Boiler Certification 37
FESOP Quarterly Report Form (Annual Diesel fuel usage) 38
FESOP Quarterly Report Form (Automated trickle applicator)..... 39
Quarterly Deviation and Compliance Monitoring Report Form 40

SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary Electric Motor manufacturing Plant.

Source Address:	2000 Taylor Street, Fort Wayne, Indiana 46802
Mailing Address:	2000 Taylor Street, Fort Wayne, Indiana 46802
General Source Phone Number:	260-439-4009
SIC Code:	3621
County Location:	Allen
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD Rule Minor Source, Section 112 of the Clean Air Act Not 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) One (1) vanish dip tank with 0.6 MMBtu/hr natural gas bake oven, constructed in 1994, identified as unit 2104, with a maximum capacity of one thousand four hundred forty units per day (1440 units/day), and exhausting through stack 6-2-18;
- (b) One (1) automated vanish trickle applicator constructed in 1992, identified as unit 2103, with a maximum capacity of six hundred seventy-two units per day (672 units/day), and exhausting through stacks 6-2-2A and 6-2-2B;
- (c) Two (2) diesel fired generators, constructed in 1996, identified as Unit 5005, with a maximum capacity of 11.9 MMBtu/hr each, equipped with a 1000 gallon storage tank and exhausting through stacks 26-PH6, 26-PH7, 26PH8 and 26PH9;
- (d) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5001 with a maximum capacity of 48.372 MMBtu/hr each, and exhausting through stack T6 [326 IAC 6-2-4]; and
- (e) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5004, with a maximum capacity of 20 MMBtu/hr each, and exhausting through stack 4-PH5 [326 IAC 6-2-4].

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:

- (1) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment [326 IAC 6-3-2].

- (2) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute [326 IAC 6-3-2]; and
- (3) Powder Surface Coating Room, consisting of two (2) powder paint booths controlled by filters and a steam oven, with a maximum capacity of 500 units/hour, each [326 IAC 6-3-2].

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) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 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.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F003-6951-00284, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

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

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 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.6 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.7 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 an "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.8 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).

B.9 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 no later than July 1 of each year to:

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

B.10 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.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 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 describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(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) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) 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.

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

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

- (a) All terms and conditions of permits established prior to F003-6951-00284 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 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.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 Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "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.

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 Federally Enforceable State Operating

Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 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 being 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application shall be certified by an "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 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

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

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

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

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

(4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(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) 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).
- (c) 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.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

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 13-17-3-2][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:

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

The application which shall be submitted by the Permittee does require the certification by an "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 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

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

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

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

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

C.2 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, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (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) The potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.

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

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary 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.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

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

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "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 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

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

C.9 Performance Testing [326 IAC 3-6]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted

by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

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

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(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 Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Paint Booths

- (a) One (1) vanish dip tank with 0.6 MMBtu/hr natural gas bake oven, constructed in 1994, identified as unit 2104, with a maximum capacity of one thousand four hundred forty units per day (1440 units/day), and exhausting through stack 6-2-18; and
- (b) One (1) automated vanish trickle applicator constructed in 1992, identified as unit 2103, with a maximum capacity of six hundred seventy-two units per day (672 units/day), and exhausting through stacks 6-2-2A and 6-2-2B.

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

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

D.1.1 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-1(a)(4), the actual volatile organic compound (VOC) delivered to the coating applicators in the automated vanish trickle applicator shall be less than 15 lb/day. Compliance with this limit will render 326 IAC 8-2-9 not applicable to this emission unit.
- (b) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of the coating delivered to the applicator at the, vanish dip tank, identified as 2104 shall not exceed 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

Compliance with the VOC content limit shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings only on days when one or more of the coating materials exceed a VOC content of 3.5 pounds of VOC per gallon of coating less water.

This volume weighted average shall be determined by the following equation:

$$A = \frac{\sum(C_i \times U_i)}{\sum U_i}$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied of Coating i;

C_i is the VOC content of the coating in pounds VOC per gallon less water as applied of Coating i; and

U_i is the usage rate of the coating i in gallons per day of coating.

n is number of coatings used per day.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized

Compliance Determination Requirements

D.1.2 Volatile Organic Compounds (VOC)

Compliance with the VOC limitation contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.1.3 Record Keeping Requirements

(a) To document compliance with Condition D.1.1(a), the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC content limit and the VOC emission limit established in Condition D.1.1.

(1) The amount of coating material and solvent less water used on a daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used;

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) The volume weighted VOC average content of the coating used for each day;

(3) The cleanup solvent usage for each day; and

(4) The VOC usage and VOC content for each day.

(b) To document compliance with Condition D.1.1(b), the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC content limit and the VOC emission limit established in Condition D.1.1.

(1) The amount of coating material and solvent less water used on a daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used;

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) The volume weighted VOC average content of the coating used for each day;

(3) The cleanup solvent usage for each day; and

(4) The VOC usage and VOC content for each day.

D.1.4 Reporting Requirements

- (a) A quarterly summary of the monthly VOC emissions from the automated trickle applicator, identified as 2103 covered by Condition D.1.1(a) 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).

- (b) A quarterly summary of the monthly VOC emissions from the vanish dip tank, identified as 2104 covered by Condition D.1.1(b) 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).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Diesel Generators

- (a) Two (2) diesel fired generators, constructed in 1996, identified as unit 5005 with a maximum capacity of 11.9 MMBtu/hr each, equipped with a 1000 gallon storage tank and exhausting through stacks 26-PH6, 26-PH7, 26PH8 and 26PH9.

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

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

D.2.1 PSD and Part 70 Minor Limit [326 IAC 2-8-4][326 IAC 2-2]

The total diesel fuel oil usage of the diesel fired generators shall be less than 98 kilo gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, and the NOx and CO emissions shall not exceed 604 and 130 pounds per kilo gallon of diesel fuel, respectively.

Compliance with the above limits and the potential NOx and CO emissions from the other emission units at the source will limit the source wide NOx and CO emissions to less than 100 tons per twelve (12) consecutive month period, each and will render 326 IAC 2-7 (Part 70) not applicable to this source.

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

D.2.2 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain a log of monthly diesel fuel oil usage.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.3 Reporting Requirements

A quarterly summary of the diesel fuel oil usage to document compliance with Condition D.2.1 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).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers

- (1) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5001 with a maximum capacity of 48.372 MMBtu/hr each, and exhausting through stack T6 [326 IAC 6-2-4]; and
- (2) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5004 with a maximum capacity of 20 MMBtu/hr each, and exhausting through stack 4-PH5 [326 IAC 6-2-4].

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

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

D.3.1 Particulate Matter (Particulate Emission Limitations for Sources of Indirect Heating) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, particulate matter (PM) emissions from each of the four Boilers, identified as 5001 and 5004 shall not exceed 0.30 pounds of PM per million British thermal units, each.

The limits were calculated using the equation below:

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

Where:

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

Q = Total source maximum operating capacity (MMBtu/hr)

D.3.2 General Provision Relating to New Source Performance Standards [326 IAC 12] [40 CFR 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 for the four boilers except as otherwise specified in 40 CFR Part 60, Subpart Dc.
- (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,
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

D.3.3 Standard of Performance for Small Industrial-Commercial Institutional Steam Generating Units [326 IAC 12] [40 CFR 60, Subpart Dc]

Pursuant to 40 CFR 60 Subpart Dc, the Permittee shall comply with the provisions of Standard of Performance for Small Industrial-Commercial Institutional Steam Generating Units for the four boilers 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.

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

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 71 FR 9884, Feb. 27, 2006]

§ 60.41c Definitions.

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

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

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388–77, 90, 91, 95, or 98a, Standard Specification for Classification of Coals by Rank (IBR—see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

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

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

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

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or more effective prevention or control of air pollutant emissions from combustion, provided that, during these periods of research and development, the heat generated is not used for any purpose other than preheating combustion air for use by that steam generating unit (i.e.,

the heat generated is released to the atmosphere without being used for space heating, process heating, driving pumps, preheating combustion air for other units, generating electricity, or any other purpose).

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

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396–78, 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.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 65 FR 61752, Oct. 17, 2000; 71 FR 9884, Feb. 27, 2006]

§ 60.48c Reporting and recordkeeping requirements.

(a) The Permittee 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.

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

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

(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.

[55 FR 37683, Sept. 12, 1990, as amended at 64 FR 7465, Feb. 12, 1999; 65 FR 61753, Oct. 17, 2000; 71 FR 9886, Feb. 27, 2006]

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (1) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment [326 IAC 6-3-2];
- (2) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute [326 IAC 6-3-2]; and
- (3) Powder Surface Coating Room, consisting of two (2) powder paint booths controlled by filters and a steam oven, with a maximum capacity of 500 units/hour, each [326 IAC 6-3-2].

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

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

D.4.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2, the particulate emissions from the brazing equipment, cutting torches, soldering equipment, and welding equipment shall be limited by the following equation:

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

Where:

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

- (b) Pursuant to 326 IAC 6-3-2, the particulate emissions from the grinding and machining operations and the two (2) powder paint booths shall be limited by the following equation:

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

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

Where:

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

- (c) Pursuant to 326 IAC 6-3-2(d), particulate from the two (2) powder paint booths shall be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

Compliance Determination Requirements

D.4.2 Particulate Matter (PM)

- (a) The Baghouse for particulate control shall be in operation and control emissions from the grinding and machining operations at all times that the grinding and machining operations is in operation.

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

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

Source Name: General Electric-Motor and Industrial Systems
Source Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
Mailing Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
FESOP Permit No.: F003-6951-00284

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: 317-233-0178
Fax: 317-233-6865**

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

Source Name: General Electric-Motor and Industrial Systems
Source Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
Mailing Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
FESOP Permit No.: F003-6951-00284

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N 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 DATA SECTION**

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

Source Name: General Electric-Motor and Industrial Systems
Source Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
Mailing Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
FESOP Permit No.: F003-6951-00284

<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Alternate Fuel burned 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 DATA SECTION**

FESOP Quarterly Report

Source Name: General Electric-Motor and Industrial Systems
Source Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
Mailing Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
FESOP Permit No.: F003-6951-00284
Facility: Diesel Fired Generators
Parameter: Annual Diesel fuel oil usage
Limit: Less than 98 kilo gallons per twelve consecutive month period.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

(Submit Report Quarterly)

Source Name: General Electric-Motor and Industrial Systems
 Source Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
 Mailing Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
 FESOP Permit No.: F003-6951-00284
 Facility: Automated trickle applicator
 Parameter: VOC
 Limit: Less than 15 pounds per day.

Month: _____ Year: _____

Day	VOC Input (lb)	Day	VOC Input (lb)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

No deviation occurred in this month.

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

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: General Electric-Motor and Industrial Systems
 Source Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
 Mailing Address: 2000 Taylor Street, Fort Wayne, Indiana 46802
 FESOP Permit No.: F003-6951-00284

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	General Electric-Motor and Industrial Systems
Source Location:	2000 Taylor Street, Fort Wayne, Indiana 46802
County:	Allen
SIC Code:	3621
Permit Renewal No.:	F003-6951-00284
Permit Reviewer:	Josiah Balogun

The Office of Air Quality (OAQ) has reviewed the operating permit application from General Electric-Motor and Industrial Systems relating to the operation of an electric motor manufacturing plant.

History

On December 27, 2006, General Electric Industrial Systems submitted applications to the OAQ requesting an operating permit. General Electric Industrial Systems was issued a State construction permit on August 31, 1995 and an exemption on May 6, 2002.

Source Definition

The electric motor manufacturing plant consists of two (2) plants:

- (a) Plant 1 (Plant ID 003-00031) is located at 2000 Taylor Street, Fort Wayne, Indiana 46802; and
- (b) Plant 2 (Plant ID 003-00284) is located at 1635 Broadway Street, Fort Wayne, Indiana 46802.

Since the two (2) plants are in near proximity to one another, have the same SIC code, are owned by one (1) company, and the wire mill at the Taylor Street facility produces magnetic wire that provides a portion of the materials used at both sites for the production of motors, they will be considered one (1) source pursuant to the definition in 326 IAC 2-7-1(22).

Permitted Emission Units and Pollution Control Equipment

- (a) One (1) vanish dip tank with 0.6 MMBtu/hr natural gas bake oven, constructed in 1994, identified as unit 2104, with a maximum capacity of one thousand four hundred forty units per day (1440 units/day), and exhausting through stack 6-2-18;
- (b) One (1) automated vanish trickle applicator constructed in 1992, identified as unit 2103, with a maximum capacity of six hundred seventy-two units per day (672 units/day), and exhausting through stacks 6-2-2A and 6-2-2B;
- (c) Two (2) diesel fired generators, constructed in 1996, identified as Unit 5005, with a maximum capacity of 11.9 MMBtu/hr each, equipped with a 1000 gallon storage tank, and exhausting through stacks 26-PH6, 26-PH7, 26PH8 and 26PH9;

- (d) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5001, with a maximum capacity of 48.372 MMBtu/hr each, and exhausting through stack T6 [326 IAC 6-2-4]; and
- (e) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5004, with a maximum capacity of 20 MMBtu/hr each, and exhausting through stack 4-PH5 [326 IAC 6-2-4].

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

There are no unpermitted emission units operating at this source during this review process.

Insignificant Activities

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

- (1) One (1) manual spray booth, using a dry filter as a control device, with an electric cure oven, constructed prior to 1980, identified as unit 2112, with a maximum capacity of seven hundred twenty unit per day (720 units/day), and exhausting through stacks 6-2-16A, 6-2-16B and 6-2-17;
- (2) One (1) manual spray booth, using a dry filter as a control device, with an electric cure oven, constructed prior to 1980, identified as unit 2113, with a maximum capacity of seven hundred twenty unit per day (720 units/day), and exhausting through stack 4-2-2;
- (3) One (1) DC stator/coil vanish dip system with one electric curing oven, constructed prior to 1980, identified as unit 2108, with a maximum capacity of one hundred fifty units per day (150 units/day), and exhausting through stack 4-2-2;
- (4) Two (2) DC motor coil manually operated vanish dip tanks with one electric cure oven, constructed prior to 1980, identified as unit 2102, with a maximum capacity of one hundred twenty units per day (120 units/day) each, and exhausting through stacks 6-3-11A, 6-3-11B and 6-3-11C;
- (5) Natural gas-fired combustion sources with heat input equal to or less than ten million (10, 000, 000) Btu per hour;
 - (A) two (2) natural gas-fired oven with a maximum capacity of 0.8MMBtu/hr, each; and
 - (B) one (1) natural gas-fire oven with a maximum capacity of 0.6 MMBtu/hr.
- (6) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour;
- (7) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity or less than or equal to ten-thousand and five-hundred (10,500) gallons, and dispensing less than or equal to two-hundred and thirty thousand (230,000) gallons per month;
- (8) The following VOC and HAP storage containers:
 - (A) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;

- (9) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (10) Machining where an aqueous cutting coolant continuously floods the machining interface;
- (11) Cleaners and solvents characterized as having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100⁰F);
- (12) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment [326 IAC 6-3-2];
- (13) Closed loop heating and cooling systems;
- (14) Infrared cure equipment;
- (15) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume;
- (16) Any operation using aqueous solutions containing less than one-percent (1%) by weight of VOCs excluding HAPs;
- (17) Noncontact cooling tower systems with forced and induced draft cooling tower system not regulated under NESHAP;
- (18) Solvent recycling systems with batch capacities less than or equal to 100 gallons;
- (19) Quenching operations used with heat treating processes;
- (20) Heat exchanger cleaning and repair;
- (21) Process vessel degassing and cleaning to prepare for internal repairs;
- (22) Paved and unpaved roads and parking lots with public access;
- (23) Asbestos abatement projects regulated by 326 IAC 14-10;
- (24) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process;
- (25) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment;
- (26) Blowdown for any of the following: sight glass; boiler, compressors; pumps; and cooling tower;
- (27) On-site fire and emergency response training approved by the department;
- (28) Emergency generators:
 - (1) Diesel generators not exceeding two-thousand and two-hundred (2200) horsepower;

- (2) Diesel generators not exceeding six-hundred and sixty five (665) horsepower; and
- (3) Diesel generators not exceeding one-hundred and seventy (170) horsepower.
- (29) Other emergency equipment as follows: electric stationary fire pumps;
- (30) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute [326 IAC 6-3-2];
- (31) Purge double block and bleed valves;
- (32) A laboratory as defined in 326 IAC 2-7-1(21)(D);
- (33) Electric Annealing Ovens;
- (34) Powder Surface Coating Room, consisting of two (2) powder paint booths , controlled by a filters and a steam oven, with a maximum capacity of 500 units/hr, each [326 IAC 6-3-2];
- (35) Stator Wedge Former and Final Packaging;
- (36) Tape End Turns;
- (37) Dry Metal Machining – Manufactured Parts – All Lines;
- (38) Steel Annealing – All Lines;
- (39) Final Packaging – Multiple Lines;
- (40) Stator Wedge Former BT Line, Tape End Turns, and Bond Press; and
- (41) Dry Metal Machining – BT, BC/51/Service Lines.

Existing Approvals

Since the issuance of the State construction permit CP003-4544-00031 on August 31, 1995, the source has constructed or has been operating under the following approvals as well:

- (a) Exemption EX003-15540-00284 issued on May 6, 2002.

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

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
6-3-11A	56	2.0	4,200	85
6-3-11B	56	2.50	2,325	180
6-3-11C	53	2.30	N/R	72
6-2-2A	95	3x2	1,000	150
6-2-2B	95	2.5x1.7	1,000	72
6-2-18	97	2.33	7,220	350
4-2-2	119.5	2.80	7,500	110
6-2-16A	43	2.0	1,000	72
6-2-16B	42	0.67	1,000	72
6-2-17	N/R	1.0	6,688	89
T6	120	4.0	13,000	305
4-PH5	115	3.0	13,000	290
26-PH6	12	1.0	5,500	840
26-PH7	12	1.0	5,500	840
26-PH8	12	1.0	5,500	840
26-PH9	12	1.0	5,500	840

Emission Calculations

See Appendix A of this document for detailed emission calculations (1 through 17).

County Attainment Status

The source is located in Allen County

Pollutant	Status
PM ₁₀	attainment
PM _{2.5}	attainment
SO ₂	attainment
NOx	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Allen 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. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone. Allen County has been designated as attainment for ozone. Therefore, VOC emissions and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (c) Allen County has been classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	79.9
PM ₁₀	83.4
SO ₂	33.6
VOC	47.5
CO	154.4
NO _x	529.2
Pb	less than 10

HAPs	tons/year
Benzene	less than 10
Dichlorobenzene	less than 10
Formaldehyde	less than 10
Hexane	less than 10
Toluene	less than 10
Xylene	less than 10
Proylene	less than 10
1,3-Butadiene	less than 10
Acetaldehyde	less than 10
Acrolein	less than 10
Total PAH	less than 10
Lead	less than 10
Cadmium	less than 10
Chromium	less than 10
Manganese	less than 10
Nickel	less than 10
Total	Less than 25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of NO_x and CO are equal to or greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit their NO_x and CO emissions to less than Title V levels, therefore the source will be issued a FESOP.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than 100 tons per year.

- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

- (d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2002

Pollutant	Actual Emissions (tons/year)
PM	0
PM₁₀	1
SO₂	0
VOC	61
CO	8
NO_x	9
Pb	0

Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Emission Units	PM (tons/yr)	PM ₁₀ (tons/yr)	SO ₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
DC Motor Coil (2102)	0	0	0	3.08	0	0	3.26
Automated Vanish Trickle Applicator (2103)	0	0	0	6.12	0	0	4.89
Vanish Dip Tank (2104)	0	0	0	6.96	0	0	6.65
DC Stator/Coil Vanish Dip System (2108)	0	0	0	1.76	0	0	1.83
Manual Spray Booth (2112)	0.21	0.21	0	0.65	0	0	0.44
Manual Spray Booth (2113)	0.21	0.21	0	0.65	0	0	0.44
Boilers 5001	0.8	3.2	0.3	2.3	35.6	42.4	0.8
Boilers 5004	0.3	1.3	0.1	1.0	14.7	17.5	0.33
Diesel Fired Generators 5005	2.8	2.8	2.6	2.1	8.5	29.6	0.001
Emergency Generators	0.5	0.5	3.1	0.5	4.2	9.0	0
Two (2) Powder Paint booths	2.05	2.05	0	0	0	0	0
Other Insignificant Activities	4.52	4.59	0.01	0.07	1.03	1.23	0.02
Total Emissions	11.4	14.9	6.1	25.2	less than 100	Less than 100	Single HAP < 10 and Total HAPs < 25

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant and PM are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

- (a) 40 CFR 60, Subpart Dc-Standard of Performance for Small Industrial-Commercial Institutional Steam Generating Unit.

The Boilers, identified as 5001 and 5004 are subject to the requirements of the New Source Performance Standard, 40 CFR 60, Subpart Dc, Standard of Performance for

Small Industrial-Commercial Institutional Steam Generating Unit, because the boilers were constructed in 1993, which was after June 9, 1989, which was the applicability date for this rule and each boiler has heat input capacity of greater than 10 million Btu/hour but less than 100 million Btu/hour. The specific facilities subject to this rule includes the following:

- (1) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5001 with a maximum capacity of 48.372 MMBtu/hr each, and exhausting through stack T6 [326 IAC 6-2-4]; and
- (2) Two (2) natural gas-fired boilers, constructed in 1993, identified as unit 5004, with a maximum capacity of 20 MMBtu/hr each, and exhausting through stack 4-PH5 [326 IAC 6-2-4].

Nonapplicable portion of the NSPS will not be included in the permit. The boilers are subject to the following portions of Subpart Dc

- (1) 40 CFR 60.40c (a)(b);
 - (2) 40 CFR 60.41c; and
 - (3) 40 CFR 60.48c (a)(1), (g)(i)(j).
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) included in this permit renewal for this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

The uncontrolled NOx emissions are more than 250 tons per year for this source.

The NOx emissions are limited by 326 IAC 2-8-4 to less than 100 tons per year. FESOP limit will also render 326 IAC 2-2 (PSD) not applicable to this source.

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

The source was constructed in 1980, emit less than 10 tons per year of any single HAP or 25 tons per year of any combinations of HAPs. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-6 (Emission Reporting)

Revision to 326 IAC 2-6 (Emission Reporting) became effective March 27, 2004. The Permittee is no longer required to submit an emission statement, therefore, the emission statement requirements are removed from the Permit.

326 IAC 5-1 (Opacity Limitations)

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

State Rule Applicability – Individual Facilities

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

- (a) Pursuant to 326 IAC 6-3-2, the particulate emissions from the brazing equipment, cutting torches, soldering equipment, and welding equipment shall be limited by the following equation:

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

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

Where:

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

- (b) Pursuant to 326 IAC 6-3-2, the particulate emissions from the grinding and machining operations and the two (2) powder paint booths shall be limited by the following equation:

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

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

Where:

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

326 IAC 6-3-2 (Particulate Emission Limitations for Work Practices and Control Technologies)
Pursuant to 326 IAC 6-3-2(d), the particulate matter from the two (2) powder paint booths shall be controlled by dry filters, and the Permittee shall operate the filters in accordance with manufacturer's specifications.

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

Pursuant to 326 IAC 6-3-1(b)(5), the vanish dip tank, identified as 2104, DC stator/coil vanish dip system, identified as 2108 and the DC motor coil manually operated vanish dip tanks, identified as 2102 are exempt from the 326 IAC 6-3 rule.

326 IAC 6-3-2 (Particulate Emission Limitations for Work Practices and Control Technologies)

Pursuant to 326 IAC 6-3-1(b)(14), the potential particulate matter (PM) emissions from the two (2) manual spray booths, identified as 2112 and 2113 and automated trickle vanish applicator, identified as 2103 are less than 0.551lb/hr. Therefore, they are exempt from the 326 IAC 6-3 rule.

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of NOx and CO emissions shall be limited to less than one hundred (100) tons per year.

- (a) The uncontrolled NOx emissions are more than 100 tons per year for this source. Therefore a federally enforceable limit for NOx emissions shall be established for this source. The total diesel fuel oil usage of the diesel fired generators shall be less than 98 Kgal per twelve (12) consecutive month period, with compliance determined at the end of each month, and the NOx emissions shall not exceed 604 pounds per kilo gallon of diesel fuel.
- (b) The diesel fuel oil usage limit established for NOx, and CO emission rate of 130 pounds per kilo gallon of diesel fuel oil usage will also limit source wide CO emissions to less than 100 tons per year.

Compliance with the above limits, combined with NOx and CO emissions from other emission units, will limit the source wide NOx and CO emissions to less than 100 tons per twelve (12) consecutive month period, each, and will render 326 IAC 2-7 (Part 70) not applicable to this source.

326 IAC 6-2-4 (Particulate Emissions Limitations for Indirect Heating Facilities)

The natural gas-fired boilers identified as 5001 and 5004 are subject to 326 IAC 6-2-4 (Particulate Emissions for Sources of indirect Heating) because they were constructed after September 21, 1983.

Pursuant to this rule, the particulate matter emissions from the boilers identified as 5001 and 5004 shall be limited as follows:

Year	Unit	Q (MMBtu/hr)	Pt (lb/MMBtu)	Emission Limit (lb/MMBtu)
1993	4 Boilers	136.744	0.30	0.30

The above values were determined from the following equation:

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

Where:

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

Q = Total source maximum operating capacity (MMBtu/hr).

326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

- (a) The DC stator/coil manually operated vanish dip tanks, identified as 2102, the manual spray booth, identified as 2112, the manual spray booth identified as 2113 and DC stator/coil vanish dip system, identified as 2108 were constructed prior to January 1, 1980. Therefore, the requirements of 326 IAC 8-2-9 are not applicable.
- (b) Pursuant to 326 IAC 8-2-1(a)(4), the automated vanish trickle applicator, identified as 2103, constructed in 1992 has actual emissions of less than 15 lb/day, therefore the requirements of 326 IAC 8-2-9 are not applicable.
- (c) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of the coating delivered to the applicator at the, vanish dip tank, identified as 2104 shall not exceed 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

Compliance with the VOC content limit shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on days when one (1) or more of the coating materials exceed a VOC content of 3.5 pounds of VOC per gallon of coating less water. This volume weighted average shall be determined by the following equation:

$$A = \left[\frac{\sum (C_i \times U_i)}{\sum U_i} \right]$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied of coating i;

C_i is the VOC content of the coating in pounds VOC per gallon less water as applied of coating i;

U_i is the usage rate of the coating i in gallons per day of coating; and

n is number of coatings used that day.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

326 IAC 12 (New sources Performance Standard)
40 CFR 60, Subpart Dc was revised June 13, 2007. However, pursuant to 326 IAC 1-1-3, the version of the rule referenced by 326 IAC 12 was the version in existence on February 27, 2006, which was recently amended on June 13, 2007. Only the Federal version of the rule applies, if the Federal version is different from the State version.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

No compliance demonstration or monitoring requirements for automated trickle applicator, DC stator/coil manually operated vanish dip tanks, the two (2) manual spray booth, and DC stator/coil vanish dip system because compliance is determined based on material balance.

Recommendation

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

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

An application for the purposes of this review was received on December 27, 2006.

Conclusion

The operation of this General Electric Industrial Systems shall be subject to the conditions of the attached FESOP No.F003-6951-00031.

Appendix A: Emissions Calculations
Emission Summary

Source Name: General Electric-Motor and Industrial Systems
Source Location: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Permit Reviewer: Josiah Balogun
Date: 7-Jul-2007

Uncontrolled Potential Emissions

	PM (tons/yr)	PM₁₀ (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Units							
DC Motor Coil (2102)	0	0	0	3.08	0	0	3.26
Automated Vanich Trickle Applicator (2103)	0	0	0	6.12	0	0	4.89
Vanish Dip Tank (2104)	0	0	0	6.96	0	0	6.65
Dc Stator/Coil Vanish Dip System (2108)	0	0	0	1.76	0	0	1.83
Manual Spray booth (2112)	0.21	0.21	0	0.65	0	0	0.44
Manual Spray booth (2113)	0.21	0.21	0	0.65	0	0	0.44
Boiler 5001	0.8	3.2	0.3	2.3	35.6	42.4	0.8
Boiler 5004	0.3	1.3	0.1	1	14.7	17.5	0.33
Diesel Fired Generators (5005) #1	32.3	32.3	30.1	24.4	98.9	459.5	0.002
Emergency Generators	0.5	0.5	3.1	0.5	4.2	9	0
Two (2) Powder Paint Booths	41.1	41.1	0	0	0	0	0
Other Insignificant Activities	4.52	4.59	0.01	0.07	1.03	1.23	0.02
Total Emissions	79.9	83.4	33.6	47.5	154.4	529.6	18.7

Appendix A: Emissions Calculations
Emission Summary

Source Name: General Electric-Motor and Industrial Systems
Source Location: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Permit Reviewer: Josiah Balogun
Date: 7-Jul-2007

Limited Potential Emissions

	PM (tons/yr)	PM₁₀ (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Units							
DC Motor Coil (2102)	0	0	0	3.08	0	0	3.26
Automated Vanich Trickle Applicator (2103)	0	0	0	6.12	0	0	4.89
Vanish Dip Tank (2104)	0	0	0	6.96	0	0	6.65
Dc Stator/Coil Vanish Dip System (2108)	0	0	0	1.76	0	0	1.83
Manual Spray booth (2112)	0.21	0.21	0	0.65	0	0	0.44
Manual Spray booth (2113)	0.21	0.21	0	0.65	0	0	0.44
Boiler 5001	0.8	3.2	0.3	2.3	35.6	42.4	0.8
Boiler 5004	0.3	1.3	0.1	1	14.7	17.5	0.33
Diesel Fired Generators (5005) #1	2.8	2.8	2.6	2.1	8.5	29.6	0.001
Emergency Generators	0.5	0.5	3.1	0.5	4.2	9	0
Two (2) Powder Paint Booths	2.05	2.05	0	0	0	0	0
Other Insignificant Activities	4.52	4.59	0.01	0.07	1.03	1.23	0.017
Total Emissions	11.4	14.9	6.1	25.2	less than 100	less than 100	Single less than 10 and Total less than 25

**Appendix A Emission Calculation
Uncontrolled VOC and PM Emissions**

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Coating Materials	Density (lbs/gal)	Throughput Units (units/day)	Usage (lb/unit)	Weight % VOC	Weight % non-volatiles	Volume % H ₂ O	VOC (lb/gal) Less Water	VOC (lb/gal)	Uncontrolled VOC (tons/yr)	controlled VOC (tons/yr)	Uncontrolled PM (tons/yr)	controlled PM (tons/yr)	Transfer Efficiency (%)
2102 DC motor coil manually operated vanish dip tanks													
Hi-Therm BC-346-A Varnish	8.72	120	0.165	67.00%	33.00%	0.00%	5.84	5.8	2.42	2.42	0.00	0.00	100.00%
Xylene	7.25	120	0.03	100.00%	0.00%	0.00%	7.25	7.25	0.66	0.66	0.00	0.00	100.00%
									Subtotal	3.08	3.08	0.00	0.00
2103 Automated vanish trickle applicator													
6180-S Polyester Resin	9.26	672	0.114	35.00%	65.00%	0.00%	3.24	3.24	4.89	4.89	0.00	0.00	100.00%
Thermaclean Gun Flush Solvent	9.09	672	0.006	100.00%	0.00%	0.00%	9.09	9.09	0.74	0.74	0.00	0.00	100.00%
TBP Catalyst	9.76	672	0.004	100.00%	0.00%	0.00%	9.76	9.76	0.49	0.49	0.00	0.00	100.00%
									Subtotal	6.12	6.12	0.00	0.00
2104 Vanish dip tank													
1000-70B Varnish	8.84	1440	0.11	23.17%	12.08%	0.00%	2.05	2.05	6.70	6.70	0.00	0.00	100.00%
Dimethyl Ethanolamine	7.41	1440	0.001	100.00%	0.00%	0.00%	7.41	7.41	0.26	0.26	0.00	0.00	100.00%
									Subtotal	6.96	6.96	0.00	0.00
2108 DC stator/coil vanish dip system													
Hi-Therm BC-346-A Varnish	8.72	150	0.066	67.00%	33.00%	0.00%	5.84	5.8	1.21	1.21	0.00	0.00	100.00%
Xylene	7.25	150	0.02	100.00%	0.00%	0.00%	7.25	7.3	0.55	0.55	0.00	0.00	100.00%
									Subtotal	1.76	1.76	0.00	0.00
2112 Manual spray booth													
No. 33 Grey Paint	10.35	720	0.007	41.84%	58.16%	0.00%	4.33	4.33	0.38	0.38	0.214	0.214	60.00%
Xylene	7.25	720	0.002	100.00%	0.00%	0.00%	7.25	7.25	0.26	0.26	0.00	0.00	60.00%
									Subtotal	0.65	0.65	0.214	0.214
2113 Manual spray booth													
No. 33 Grey Paint	10.35	720	0.007	41.84%	58.16%	0.00%	4.33	4.33	0.38	0.38	0.214	0.214	60.00%
Xylene	7.25	720	0.002	100.00%	0.00%	0.00%	7.25	7.25	0.26	0.26	0.00	0.00	60.00%
									Subtotal	0.65	0.65	0.214	0.214
Total Emissions									19.21	19.21	0.428	0.428	

Methodology

VOC Uncontrolled (tons/yr) = Throughput (unit/hr) x Usage (lb/unit) x Weight of VOC (%) x 8760/2000

PM Uncontrolled (tons/yr) = Throughput (unit/hr) x Usage (lb/unit) x weight % of PM x (1-Transfer Eff.) x 8760/2000

VOC lb/gal = Density (lb/gal) x Weight of VOC (%)

VOC lb/gal less water = Density (lb/gal) x Weight of VOC %/(1-Volume % of H₂O)

**Appendix A Emission Calculation
Uncontrolled HAPs Emissions**

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Coating Materials	Throughput Units (units/day)	Usage (lb/unit)	Weight % of Xylene	Weight % of Ethyl Benzene	Weight % of Styrene	Weight % of Glycol	Weight % of Triethylamine	Weight % of formaldehyde	Weight % of Chromium	Weight % of Lead	Xylene (tons/yr)	Ethyl Benzene (tons/yr)	Styrene (tons/yr)	Glycol (tons/yr)	Triethylamine (tons/yr)	formaldehyde (tons/yr)	Chromium (tons/yr)	Lead (tons/yr)	Total uncontrolled HAPs (tons/yr)	Total controlled HAPs (tons/yr)	
2102 DC motor coil manually operated vanish dip tanks																					
Hi-Therm BC-346-A Varnish	120	0.165	50.00%	15.00%	0.00%	0.00%	0.00%	1.00%	1.00%	1.50%	1.81	0.54	0.00	0.00	0.00	0.04	0.04	0.05	2.48	2.48	
Xylene	120	0.03	100.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.66	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.79	
Subtotal											2.46	0.67	0.00	0.00	0.00	0.04	0.04	0.05	3.26	3.26	
2103 Automated vanish trickle applicator																					
6180-S Polyester Resin	672	0.114	0.00%	0.00%	35.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00	4.89	4.89	
Thermaclean Gun Flush Solvent	672	0.006	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TBP Catalyst	672	0.004	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Subtotal											0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	4.89	4.89
2104 Vanish dip tank																					
1000-70B Varnish	1440	0.11	0.00%	0.00%	0.00%	19.00%	4.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	5.49	1.16	0.00	0.00	0.00	6.65	6.65	
Dimethyl Ethanolamine	1440	0.001	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Subtotal											0.00	0.00	0.00	5.49	1.16	0.00	0.00	0.00	6.65	6.65	
2108 DC stator/coil vanish dip system																					
Hi-Therm BC-346-A Varnish	150	0.066	50.00%	15.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.90	0.27	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.17	
Xylene	150	0.02	100.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.55	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	
Subtotal											1.45	0.38	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.83	
2112 Manual spray booth																					
No. 33 Grey Paint	720	0.007	6.30%	2.04%	0.00%	4.80%	0.00%	0.00%	0.00%	0.00%	0.06	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.12	0.12	
Xylene	720	0.002	100.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.26	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32	
Subtotal											0.32	0.07	0.00	0.04	0.00	0.00	0.00	0.00	0.44	0.44	
2113 Manual spray booth																					
No. 33 Grey Paint	720	0.007	6.30%	2.04%	0.00%	4.80%	0.00%	0.00%	0.00%	0.00%	0.06	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.12	0.12	
Xylene	720	0.002	100.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.26	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32	
Subtotal											0.32	0.07	0.00	0.04	0.00	0.00	0.00	0.00	0.44	0.44	
Total Emissions																			17.51	17.51	

Methodology

HAPs Uncontrolled (tons/yr) = Throughput (unit/hr) x Usage (lb/unit) x Weight of HAPs (%) x 8760/2000

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Boiler (5001) 1 and Boiler (5001) 2

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

Boiler (5001) 1	48.372
Boiler (5001) 2	48.372

423.7
423.7

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM ₁₀ *	SO ₂	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission from each boiler (tons/yr)	0.4	1.6	0.127	21.2	1.2	17.8
Total Emissions (tons/yr)	0.8	3.2	0.3	42.4	2.3	35.6

*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 6 for HAPs emissions calculations.

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

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission from each boiler (tons/yr)	4.449E-04	2.542E-04	1.589E-02	3.814E-01	7.204E-04
Total Emissions (tons/yr)	8.899E-04	5.085E-04	3.178E-02	7.627E-01	1.441E-03

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission from each boiler (tons/yr)	1.059E-04	2.331E-04	2.966E-04	8.051E-05	4.449E-04
Total Emissions in tons/yr	2.119E-04	4.661E-04	5.932E-04	1.610E-04	8.899E-04

Methodology is the same as page 5.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Boiler (5004) 1 and Boiler (5004) 2

Company Name: General Electric-Motor and Industrial Systems
Address City In Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Heat Input Capacity

MMBtu/hr

Boiler (5004) 1	20
Boiler (5004) 2	20

Potential Throughput

MMCF/yr

175.2
175.2

Emission Factor (lb/MMCF)	Pollutant					
	PM*	PM*	SO ₂	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission from each boiler (tons/yr)	0.17	0.7	0.05	8.8	0.5	7.4
Total Emissions (tons/yr)	0.3	1.3	0.1	17.5	1.0	14.7

*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 8 for HAPs emissions calculations.

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

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

HAPs - Organics					
Emission Factor (lb/MMcf)	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission from each boiler (tons/yr)	1.840E-04	1.051E-04	6.570E-03	1.577E-01	2.978E-04
Total Emissions (tons/yr)	3.679E-04	2.102E-04	1.314E-02	3.154E-01	5.957E-04

HAPs - Metals					
Emission Factor (lb/MMcf)	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission from each boiler (tons/yr)	4.380E-05	9.636E-05	1.226E-04	3.329E-05	1.840E-04
Total Emissions (tons/yr)	8.760E-05	1.927E-04	2.453E-04	6.658E-05	3.679E-04

Methodology is the same as page 7.

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 Emission Calculation
 Insignificant Activities (Grinding and machining Opreation)
 Uncontrolled Emissions**

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Particulate Emissions (tons/yr)			
	Grain Loading (gr/dscf)	Air Flow Rate (scfm)	PM/PM ₁₀ Emissions (tons/yr)
Emission Unit			
Grinding and Machining Operation	0.03	4000	4.51

Methodology

Uncontrolled PM/PM₁₀ Emissions (tons/yr) = Grain Loading (gr/dscf) x Air Flow rate (scfm) x 60 min/hr x lb/7000 x 8760/2000

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Bake Oven**

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip : 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

2.8

24.5

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM ₁₀ *	SO ₂	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.02	0.09	0.01	1.23	0.07	1.03

*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 11 for HAPs emissions calculations.

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

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	2.575E-05	1.472E-05	9.198E-04	2.208E-02	4.170E-05

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	6.132E-06	1.349E-05	1.717E-05	4.660E-06	2.575E-05

Methodology is the same as page 10.

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

Distillate Oil (Diesel)

Two (2) Generators

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Heat Input Capacity

MMBtu/hr	
Generator 1	11.9
Generator 2	11.9
Total	23.8

Potential Throughput

Kgal/yr

1521.5

	Pollutant					
	PM*	PM ₁₀ *	SO ₂	NOx	VOC	CO
Emission Factor in lbs/kgal	42.5	42.5	39.7	604.0 **see below	32.1	130.0
Potential Emission from each generator (tons/yr)	32.3	32.3	30.2	459.5	24.4	98.9

Methodology

Potential Throughput (Kgal/yr) = Heat Input Capacity (MMBtu/hr) x 1/(Heating Value*Density) x 1lb/1000gal x 8,760 hrs/yr

Emission (tons/yr) = Throughput (Kgal) x Emission Factor (lb/kgal)/2,000 lb/ton

Emission Factors are from Distillate oil (Diesel) SCC #2-02-001-02

Heating Value (MMBtu/lb) AP 42 Ch 3 Table 3.3-1

Density (lb/gal): density for Distillate Oil 7.05 lb/gal

See page 13 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 9.3E-04	Xylene 2.9E-04	Formaldehyde 1.18E-03	Proylene 2.6E-03	Toluene 4.1E-04
Potential Emission from each generator (tons/yr)	7.098E-04	2.168E-04	8.977E-04	1.963E-03	3.111E-04
Total Emissions (tons/yr)	1.420E-03	4.336E-04	1.795E-03	3.925E-03	6.223E-04

HAPs - Organics				
Emission Factor in lb/MMcf	1,3-Butadiene 3.9E-05	Acetaldehyde 7.7E-04	Acrolein 9.3E-05	Total PAH 1.7E-04
Potential Emission from each generator (tons/yr)	2.974E-05	5.835E-04	7.037E-05	1.278E-04
Total Emissions (tons/yr)	5.949E-05	1.167E-03	1.407E-04	2.556E-04

Methodology is the same as page 12.

HAPs emission factors are available in AP-42, Chapter 3 Table 3.3-2

Appendix A: Emissions Calculations

Distillate Oil (Diesel)

Two (2) Generators

Limited Emissions

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Heat Input Capacity
MMBtu/hr

Generator 1	11.9
Generator 2	11.9
Total	23.8

Potential Throughput
Kgal/yr

98.0

	Pollutant					
	PM*	PM ₁₀ *	SO ₂	NOx	VOC	CO
Emission Factor in lbs/kgal	42.5	42.5	39.7	604.0 **see below	32.1	130.0
Potential Emission from each generator (tons/yr)	2.1	2.1	1.9	29.6	1.6	6.4

Methodology

Potential Throughput (Kgal/yr) = Heat Input Capacity (MMBtu/hr) x 1/(Heating Value*Density) x 1lb/1000gal x 8,760 hrs/yr

Emission (tons/yr) = Throughput (Kgal) x Emission Factor (lb/kgal)/2,000 lb/ton

Emission Factors are from Distillate oil (Diesel) SCC #2-02-001-02

Heating Value (MMBtu/lb) AP 42 Ch 3 Table 3.3-1

Density (lb/gal): density for Distillate Oil 7.05 lb/gal

See page 15 for HAPs emissions calculations.

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

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 9.3E-04	Xylene 2.9E-04	Formaldehyde 1.18E-03	Proylene 2.6E-03	Toluene 4.1E-04
Potential Emission from each generator (tons/yr)	4.572E-05	1.397E-05	5.782E-05	1.264E-04	2.004E-05
Total Emissions (tons/yr)	9.143E-05	2.793E-05	1.156E-04	2.528E-04	4.008E-05

HAPs - Organics				
Emission Factor in lb/MMcf	1,3-Butadiene 3.9E-05	Acetaldehyde 7.7E-04	Acrolein 9.3E-05	Total PAH 1.7E-04
Potential Emission from each generator (tons/yr)	1.916E-06	3.758E-05	4.533E-06	8.232E-06
Total Emissions (tons/yr)	3.832E-06	7.517E-05	9.065E-06	1.646E-05

Methodology is the same as page 14.

HAPs emission factors are available in AP-42, Chapter 3 Table 3.3-2

**Appendix A Emission Calculation
Uncontrolled and Controlled Emissions
Powder Paint Booths**

Company Name: General Electric-Motor and Industrial Systems
Address City IN Zip: 2000 Taylor Street, Fort Wayne, Indiana 46802
Permit Number: F003-6951-00284
Reviewer: Josiah Balogun
Date: 7-Jul-2007

Emission Units	Units/hr	Powder Usage (lb/unit)	Transfer Efficiency	Control Efficiency	Uncontrolled PM/PM₁₀ Emissions (lb/hr)	Uncontrolled PM/PM₁₀ Emissions (ton/yr)	Controlled PM/PM₁₀ Emissions (lbs/hr)	Controlled PM/PM₁₀ Emissions (tons/yr)
Powder spray booth 1	500	0.0625	85%	95%	4.69	20.53	0.23	1.03
Powder spray booth 2	500	0.0625	85%	95%	4.69	20.53	0.23	1.03
Total Emissions						41.06	0.47	2.05

Methodology

Uncontrolled Emissions (lbs/hr) = Units/hr x Powder Usage (lb/unit) x (1 - Transfer Efficiency)

Controlled Emissions (lbs/hr) = Uncontrolled Emissions (lbs/hr) x (1 - Control Efficiency)

Controlled Emissions (tons/yr) = Controlled Emissions (lbs/hr) x 8760 hrs/yr x 1 ton/2000 lbs

