INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: January 28, 2008

RE: Rea Magnet Wire Company / 157-25224-00032

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

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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

Enclosures
FNTVOP.dot 1/2/08

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100 North Senate Avenue
MC 61-53, Room 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Mr. Jim Walker
Rea Magnet Wire Company
2800 Concord Road,
Lafayette, IN 47905

January 28, 2008

Re: 157-25224-00032
Minor Permit Modification to:
Part 70 Permit Renewal No.: T157-17638-00032

Dear Walker:

Rea Magnet Wire Company was issued a Part 70 Operating Permit on December 29, 2006, for magnet wire coating operation. A letter requesting changes to this permit was received on August 30, 2007. Pursuant to the provisions of 326 IAC 2-7-12 a minor permit modification to this permit is hereby approved as described in the attached Technical Support Document.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire Part 70 Operating Permit as modified will be provided at issuance.

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Josiah Balogun, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Josiah Balogun or extension (4-5257), or dial (317) 234-5257.

Sincerely,

Matt Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit
Technical Support Document
PTE Calculations

JB

cc: File – Tippecanoe County
Tippecanoe County Health Department
U.S. EPA, Region V
Air Compliance Inspectors
Compliance Data Section
Permit Reviewer Josiah Balogun
Permits Administration and Development

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PART 70 Operating Permit
OFFICE OF AIR QUALITY

Rea Magnet Wire Company
2800 Concord Road
Lafayette, Indiana 47909

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

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

Operating Permit No.: T157-17638-00032	
Issued by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: December 29, 2006 Expiration Date: December 29, 2011

First Significant Permit Modification No: T157-24239-00032

First Minor Permit Modification No.: T157-25224-00032	
Issued by: Original Signed By: Matt Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: January 28, 2008

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary magnet wire coating operation.

Source Address:	2800 Concord Road, Lafayette, Indiana 47909
Mailing Address:	2800 Concord Road, Lafayette, Indiana 47909
Source Phone Number:	(765) 447-8006
SIC Code:	3357
County Location:	Tippecanoe
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules 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 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

(a) Three (3) MOCO wire enameling ovens with internal catalytic oxidizers, identified as emissions units 417-418, 421-424 and 425-428, installed prior to January 1, 1980, with a maximum capacity of 54.0 units per hour each, and maximum enamel usage rate of 0.15 gallons per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 5, 6 and 7, respectively.

(b) Four (4) wire enameling ovens with internal catalytic oxidizers and add-on thermal incinerators for control:

(1) Three (3) GEM gas fired wire enameling ovens, identified as emissions units 429-432, 433-436 and 437-440, installed in 1982, with a maximum capacity rating of 67.2 units per hour each, and maximum enamel usage rate of 0.12 gallon per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 1, 8, 9 and 10 respectively.

(2) One (1) GEI electric wire enameling oven, identified as emissions unit 441-444, installed in 1986, with a maximum capacity of 40.3 units per hour each, and maximum enamel usage rate of 0.10 gallons per unit, with emissions controlled by an add-on thermal incinerator, and exhausting to stack 51.

(c) Six (6) SICME model NEM electric wire enameling ovens with internal thermal oxidizers for control:

(1) Two (2) SICME model NEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 625-632U and 625-632L, installed in 1986, with a maximum capacity of 48.2 units per hour each, and maximum enamel usage (including basecoat and topcoat) 0.04 gallons per unit, with emissions exhausting to stacks 52 and 69, respectively.

(2) Four (4) SICME model NEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 633-644U, 633-644L, 645-656U and 645-656L, installed in 1987, with a maximum capacity of 72.36 thousand units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.04 gallons per unit, with emissions exhausting to stacks 76, 86, 77 and 85, respectively.

(d) Eight (8) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714 and 715-716, installed in 1994, with a maximum capacity of 81.6 units per hour each, and maximum enamel usage (including base coat and top coat nylon) of 0.014 gallons per unit, with emissions exhausting to stacks 115, 116, 117, 118, 119, 120, 121 and 122, respectively.

(e) The following SICME model SEL electric wire enameling ovens:

(1) Three (3) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 595-596, 597-598 and 599-600, installed in 1994, with a maximum capacity of 19.56 units per hour each, and maximum enamel usage (including base coat and top coat) of 0.03 gallons per unit, with emissions exhausting to stacks 131, 132 and 133, respectively.

(2) Four (4) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 725-726, 727-728, 729-730 and 731-732, installed in 1995, with a maximum capacity of 55.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.01 gallons per unit, with emissions exhausting to stacks 134, 135, 136, 137, respectively.

(3) Four (4) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 733-734, 735-736, 737-738 and 739-740, installed in 1996, with a maximum capacity of 55.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.01 gallons per unit, with emissions exhausting to stacks 138, 139, 140 and 141, respectively.

(f) Two (2) SICME model NEVG gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 301-308 and 309-316, installed in 1995, with a maximum capacity of 84.96 units per hour each, and maximum enamel usage (including base coat and top coat) of 0.04 gallons per unit, with emissions exhausting to stacks 88 and 89, respectively.

(g) Three (3) SICME model NEMG gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 601-612 , 613-624 and 669-680, installed in 1995, with a maximum capacity of 195.12 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.015 gallons per unit, with emissions exhausting to stacks 101, 100 and 87 respectively.

(h) Eight (8) MAG HES-2 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 741, 742, 743, 744, 745, 746, 747 and 748, installed in 1995, with a maximum of 93.0 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.006 gallons per unit, with emissions exhausting to stacks 150, 151, 152, 153, 154, 155, 156 and 157, respectively.

(i) Four (4) Weather-Rite V-22 gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 467/468/469/470, 475/476/477/478, 479, and 480, installed in 1995, with a maximum of 30.6 units per hour each, and maximum enamel usage of 0.146 gallons per unit, with emissions exhausting to stacks 148, 149, 67 and 68, respectively.

(j) Four (4) Weather-Rite V-22 gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 445-447, 448-450, 461-463 and 464-466, installed

in 1996, with a maximum of 30.6 units per hour each, and maximum enamel usage of 0.146 gallons per unit, with emissions exhausting to stacks 203, 204, 201, 202, respectively.

(k) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission unit 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting through stack 01.

(l) Four (4) SICME model SEV electric wire enameling ovens with internal thermal oxidizers, identified as emission units 317-322, 323-328, 329-334 and 335-340, installed in 1996, with a maximum capacity of 57.96 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.05 gallons per unit, with emissions exhausting to stacks 144, 145, 146 and 147, respectively.

(m) Four (4) SICME model SEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 801-808 and 809-816, installed in 1996, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 142 and 143, respectively.

(2) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 817-824 and 825-832, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 205 and 206, respectively.

(n) Eight (8) MAG HES-5 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 833, 834, 835, 836, 837, 838, 839, and 840, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 207, 208, 209, 210, 211, 212, 213 and 214, respectively.

(o) Two (2) SICME model SML electric wire enameling ovens with internal thermal oxidizers, identified as emission units 753 and 754, installed in 1997, with a maximum capacity of 40.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.026 gallons per unit, with emissions exhausting to stacks 217 and 218, respectively.

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

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

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

(1) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1996. [326 IAC 6-2-4]

(2) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1997. [326 IAC 6-2-4]

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

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T157-17638-00032, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state

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

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

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

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

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

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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(A) A description of the emergency;

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

(C) Corrective actions taken.

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

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

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

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

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

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

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

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

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

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a

compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

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

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

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

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

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

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

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

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

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

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

(a) All terms and conditions of permits established prior to T157-17638-00032 and issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

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

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

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

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

(3) Any change in emissions; and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

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

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

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

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

C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed 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.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall have a scale such that the expected normal reading 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 pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on May 19, 1999.

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

C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

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

(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;

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

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

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

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

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

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

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

(a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

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

The statement must be submitted to:

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

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

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

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

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. 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 or makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or 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 2-7-5(3)(C)] [326 IAC 2-1.1-11]

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

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

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

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

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

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

Stratospheric Ozone Protection

C.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.

Source Specific Condition

C.20 Covered Containers

Pursuant to SPM 157-11787-00032, issued February 20, 2001:

(a) The Permittee shall utilize enamel pumping systems that satisfy the following criteria:

(1) The return enamel line from the applicators must be direct piped and not running through or under a lid or cover.

(2) The portables must be filled with an autofeed from a central system or an auto drum pump and piped in solid, not by gravity, through a lid or opening.

SECTION D.0 FACILITY OPERATION CONDITIONS

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

(a) Three (3) MOCO wire enameling ovens with internal catalytic oxidizers, identified as emissions units 417-418, 421-424 and 425-428, installed prior to January 1, 1980, with a maximum capacity of 54.0 units per hour each, and maximum enamel usage rate of 0.15 gallons per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 5, 6 and 7, respectively.

(b) Four (4) wire enameling ovens with internal catalytic oxidizers and add-on thermal incinerators for control:

(1) Three (3) GEM gas fired wire enameling ovens identified as emissions units 429-432, 433-436 and 437-440, installed in 1982, with a maximum capacity of 67.2 units per hour each, and maximum enamel usage rate of 0.12 gallon per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 1, 8, 9 and 10 respectively.

(2) One (1) GEI electric wire enameling oven identified as emissions unit 441-444, installed in 1986, with a maximum capacity of 40.3 units per hour each, and maximum enamel usage rate of 0.10 gallons per unit, with emissions controlled by an add-on thermal incinerator, and exhausting to stack 51.

(c) Six (6) SICME model NEM electric wire enameling ovens with internal thermal oxidizers for control:

(1) Two (2) SICME model NEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 625-632U and 625-632L, installed in 1986, with a maximum capacity of 48.2 units per hour each, and maximum enamel usage (including basecoat and topcoat) 0.04 gallons per unit, with emissions exhausting to stacks 52 and 69, respectively.

(2) Four (4) SICME model NEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 633-644U, 633-644L, 645-656U and 645-656L, installed in 1987, with a maximum capacity of 72.36 thousand units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.04 gallons per unit, with emissions exhausting to stacks 76, 86, 77 and 85, respectively.

(d) Eight (8) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714 and 715-716, installed in 1994, with a maximum capacity of 81.6 units per hour each, and maximum enamel usage (including base coat and top coat nylon) of 0.014 gallons per unit, with emissions exhausting to stacks 115, 116, 117, 118, 119, 120, 121 and 122, respectively.

(e) The following SICME model SEL electric wire enameling ovens:

(1) Three (3) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 595-596, 597-598 and 599-600, installed in 1994, with a maximum capacity of 19.56 units per hour each, and maximum enamel usage (including base coat and top coat) of 0.03 gallons per unit, with emissions exhausting to stacks 131, 132 and 133, respectively.

(2) Four (4) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 725-726, 727-728, 729-730 and 731-732, installed in 1995, with a maximum capacity of 55.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.01 gallons per unit, with emissions exhausting to stacks 134, 135, 136, 137, respectively.

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

(3) Four (4) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 733-734, 735-736, 737-738 and 739-740, installed in 1996, with a maximum capacity of 55.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.01 gallons per unit, with emissions exhausting to stacks 138, 139, 140 and 141, respectively.

(f) Two (2) SICME model NEVG gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 301-308 and 309-316, installed in 1995, with a maximum capacity of 84.96 units per hour each, and maximum enamel usage (including base coat and top coat) of 0.04 gallons per unit, with emissions exhausting to stacks 88 and 89, respectively.

(g) Three (3) SICME model NEMG gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 601-612 , 613-624 and 669-680, installed in 1995, with a maximum capacity of 195.12 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.015 gallons per unit, with emissions exhausting to stacks 101, 100 and 87 respectively.

(h) Eight (8) MAG HES-2 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 741, 742, 743, 744, 745, 746, 747 and 748, installed in 1995, with a maximum capacity of 93.0 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.006 gallons per unit with emissions exhausting to stacks 150, 151, 152, 153, 154, 155, 156 and 157, respectively.

(i) Four (4) Weather-Rite V-22 gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 467/468/469/470, 475/476/477/478, 479, and 480, installed in 1995, with a maximum capacity of 30.6 units per hour each, and maximum enamel usage of 0.146 gallons per unit, with emissions exhausting to stacks 148, 149, 67 and 68, respectively.

(j) Four (4) Weather-Rite V-22 gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 445-447, 448-450, 461-463 and 464-466, installed in 1996, with a maximum capacity of 30.6 units per hour each, and maximum enamel usage of 0.146 gallons per unit, with emissions exhausting to stacks 203, 204, 201, 202, respectively.

(k) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission units 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour each, and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting to stack 01.

(l) Four (4) SICME model SEV electric wire enameling ovens with internal thermal oxidizers, identified as emission units 317-322, 323-328, 329-334 and 335-340, installed in 1996, with a maximum capacity of 57.96 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.05 gallons per unit, with emissions exhausting to stacks 144, 145, 146 and 147, respectively.

(m) Four (4) SICME model SEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 801-808 and 809-816, installed in 1996, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 142 and 143, respectively.

(2) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 817-824 and 825-832, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 205 and 206, respectively.

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

(n) Eight (8) MAG HES-5 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 833, 834, 835, 836, 837, 838, 839, and 840, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 207, 208, 209, 210, 211, 212, 213 and 214, respectively.

(o) Two (2) SICME model SML electric wire enameling ovens with internal thermal oxidizers, identified as emission units 753 and 754, installed in 1997, with a maximum capacity of 40.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.026 gallons per unit, with emissions exhausting to stacks 217 and 218, respectively.

(p) Insignificant Activities:

Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

(1) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1996. [326 IAC 6-2-4]

(2) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1997. [326 IAC 6-2-4]

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

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

D.0.1 Prevention of Significant Deterioration Minor Limit [326 IAC 2-2]

(a) The VOC usage at the magnet wire ovens shall be limited such that the emissions from all magnet wire ovens, in conjunction with VOC emissions from all other activities at this source, including the potential to emit of VOCs from insignificant activities, are less than 250 tons per twelve consecutive month period, with compliance determined at the end of each month.

(b) The internal catalytic oxidizer and the thermal incinerator for each of the wire enameling ovens (units 417-418, 421-424, 425-428, 429-432, 433-436, 437-440 and 441-444) shall, in aggregate, achieve an overall efficiency of at least ninety-eight and five tenths percent (98.5%).

(c) The internal thermal oxidizer for each magnet wire enameling oven (units 301-308, 309-316, 317-322, 323-328, 329-334, 335-340, 467/468/469/470, 475/476/477/478, 479, 480, 445-447, 448-450, 461-463, 464-466, 601-612, 613-624, 625-632U, 625-632L, 633-644U, 633-644L, 645-656U, 645-656L, 669-680, 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714, 715-716, 595-596, 597-598, 599-600, 741, 742, 743, 744, 745, 746, 747, 748, 753, 754, 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738, 739-740, 801-808, 809-816, 817-824, 825-832, 833, 834, 835, 836, 837, 838, 839, 840 and 405-406) shall, in aggregate, achieve an overall efficiency of at least ninety-eight and five tenths percent (98.5%).

Compliance with the above requirements, in conjunction with VOC emissions from all other activities at this source, including the potential to emit of VOCs from insignificant activities, shall ensure that the source-wide VOC emissions are limited to less than 250 tons per twelve consecutive month period with compliance determined at the end of each month, rendering the requirements of 326 IAC 2-2 not applicable.

D.0.2 HAP Minor Limit

In order to limit the source-wide emissions of a single HAP to less than ten (10) tons per year, and a combination of HAPs to less than twenty-five (25) tons per year, the Permittee shall limit the usage of HAP in the magnet wire ovens as follows:

(a) The total usage of coatings, solvents, lubricants and cleanup solvents in all of the magnet wire ovens at this source shall be limited such that the single HAP emissions are each less than nine and five-tenths (9.5) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This limit, in conjunction with the potential to emit of a single HAP from insignificant activities at the source shall limit the source-wide emissions of any single HAP to less than ten (10) tons per year.

(b) The total usage of coatings, solvents, lubricants and cleanup solvents in all of the magnet wire ovens at this source shall be limited such that the combined HAP emissions are less than twenty-four (24.0) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This limit, in conjunction with the potential to emit of a combination of HAPs from insignificant activities at the source shall limit the source-wide emissions of any combination of HAPs to less than twenty-five (25) tons per year.

Compliance with these limits shall render the requirements of 40 CFR 63, Subpart MMMM, not applicable to this source.

D.0.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.0.4 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP)[326 IAC 8-1-4] [326 IAC 8-1-2(a)]

(a) The Permittee shall operate the thermal oxidizers to achieve compliance with Conditions D.0.1 and D.0.2.

(b) Compliance with the VOC and HAP emission limitations contained in Conditions D.0.1 and D.0.2 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 and HAP 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.

(c) Compliance with the HAP emission limitations contained in Condition D.0.2 shall be determined within 30 days of the end of each month using the following equation:

HAP emitted = (HAP_U x (1 - HAP Control Efficiency %)) + uncontrolled HAP input

Where:

HAP_U = The total amount of controlled HAP used (in tons) at the magnet wire coating ovens.

(d) Compliance with the VOC emission limitation in Condition D.0.1 shall be determined as follows:

The source-wide VOCs emitted for each compliance period = VOC usage in the magnet wire ovens x (1 – overall control efficiency%) + uncontrolled VOC usage.

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

D.0.5 Record Keeping Requirements

(a) To document compliance with Conditions D.0.1 and D.0.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP emission limits established in Conditions D.0.1 and D.0.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

(1) The amount and VOC and HAP content of each coating, solvent, lubricant and cleanup solvent used on a monthly basis. Records shall include purchase orders, invoices, "as supplied" and "as applied" VOC and HAP data sheets from the manufacturer, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(2) The total VOC and HAP usage for each month;

(3) The weight of VOC and HAP usage for each compliance period.

(4) The weight of single HAPs and total HAPs emitted for each compliance period.

(5) VOCs emitted for each compliance period.

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

D.0.6 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.0.1 and D.0.2 shall be submitted to the addresses 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 “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) Three (3) MOCO wire enameling ovens with internal catalytic oxidizers, identified as emission units 417-418, 421-424 and 425-428, installed prior to January 1, 1980, with a maximum capacity of 54.0 units per hour each, and maximum enamel usage rate of 0.15 gallons per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 5, 6 and 7, respectively.

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

Compliance Determination Requirements

D.1.1 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.0.2, the Permittee shall conduct performance tests to verify HAP control efficiency as listed below. If the representative oven that is required to be tested has not been in operation for at least six (6) months prior to the test deadline, another similar oven in the same group of ovens shall be tested. If none of the ovens in a particular test group has been in operation for at least six (6) months prior to the test deadline, then the Permittee is not required to conduct testing for that group. However, upon startup of any oven in a test group that has not been in operation for at least six (6) months prior to the test deadline, the Permittee shall conduct performance test to verify HAP control efficiency within ninety (90) days of startup of that oven.

(a) Within twelve (12) months of issuance of this permit, the Permittee shall perform HAP testing of the ovens controlled by add-on thermal oxidizers, utilizing methods as approved by the Commissioner, for the HAP used at the source that has the lowest destruction efficiency, as estimated by the manufacturer and approved by IDEM. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Stack testing shall be performed in accordance with 326 IAC 3-6.

(b) One representative add-on thermal oxidizer from the three oxidizers that control any of the following: the three (3) MOCO magnet wire ovens listed in Section D.1, the three (3) GEM gas fired wire enameling ovens identified as emission units 429-432, 433-436 and 437-440 (listed in Section D.2), or one (1) GEI electric wire enameling oven identified as emission unit 441-444 (listed in Section D.2), shall be tested. The thermal oxidizer tested shall be the oxidizer in which the longest amount of time has elapsed since its previous test.

(c) Before using a coating that would lead to a higher HAP loading in pounds per hour than what was used during the stack test required in (a) above, the Permittee shall conduct a performance test to verify HAP control efficiency for thermal oxidizers using methods approved by the Commissioner.

(d) For a higher HAP content coating than that used during the stack test in (a) above, the following procedure shall be followed:

(1) Calculate the new minimum required control efficiency for the new coating (E_{new});

(2) Calculate the new maximum HAP loading (L_{new}) for the higher HAP content enamel;

(3) Calculate the current maximum HAP loading ($L_{current}$);

(4) If E_{new} is lower than the last stack test control efficiency, and L_{new} is lower than $L_{current}$, Permittee shall be allowed to use the same destruction efficiency for calculations for the higher HAP content enamel.

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

D.1.2 Thermal Oxidizer Operation

(a) From the date of issuance of the Part 70 permit until the approved stack test results are available, the Permittee shall operate the thermal oxidizers' 3 hour average temperature at or above 1360 deg F.

(b) The Permittee shall determine the 3 hour block average minimum temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.0.1, as approved by IDEM.

(c) From the date of the approved stack test results are available, the Permittee shall operate the thermal oxidizer**s** at or above the 3 hour block average minimum temperature as observed during the compliant stack test to maintain an overall control efficiency of not less than ninety eight and five-tenths percent (98.5%) of volatile organic compound (VOC) in order to demonstrate compliance with Condition D.0.1.

D.1.3 Parametric Monitoring

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature of the thermal oxidizer. For the purposes of this condition, continuous monitoring shall mean no less often than once per fifteen (15) minutes. The output from this monitoring system and the three hour average temperatures shall be recorded whenever the thermal oxidizer is in operation.

(b) If the primary continuous monitoring system is not in operation, the oxidizer temperature will be recorded using some manner of secondary system, such as with back-up electro-mechanical hardware or manually if necessary. Nothing in this permit shall excuse the Permittee from complying with the requirement to continuously monitor the temperature of the thermal oxidizer. Continuous monitoring shall mean no less often than once per fifteen (15) minutes.

(c) The oxidizer shall operate such that if the three-hour average temperature falls below the 3 hour block average minimum required temperature (setpoint) as determined by the latest stack test, corrective actions shall be taken to return the thermal oxidizer to at least the required minimum temperature setpoint within 15 minutes. Corrective action must return oxidizer temperature to or above the minimum setpoint within thirty (30) minutes of the corrective action, or the enamel flow to the oven shall be shut off. Failure to take corrective action or failure to shut off the enamel flow as stated above shall be considered a deviation from this permit.

(d) All actions described in paragraph (c) above must be taken in accordance with Section C - Response to Excursions or Exceedances and failure to take action consistent with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.1.4 Record Keeping Requirements

To document compliance with Condition D.1.2, the Permittee shall maintain continuous temperature records and 3 hour average temperature records.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(b) Four (4) wire enameling ovens with an internal catalytic oxidizer and add-on thermal incinerators for control:

(1) Three (3) GEM gas fired wire enameling ovens, identified as emission units 429-432, 433-436 and 437-440, installed in 1982, with a maximum capacity of 67.2 units per hour each, and maximum enamel usage rate of 0.12 gallon per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 1, 8, 9 and 10 respectively.

(2) One (1) GEI electric wire enameling oven, identified as emission unit 441-444, installed in 1986, with a maximum capacity of 40.3 units per hour each, and maximum enamel usage rate of 0.10 gallons per unit, with emissions controlled by an add-on thermal incinerator, and exhausting to stack 51.

(c) Six (6) SICME model NEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model NEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 625-632U and 625-632L, installed in 1986, with a maximum capacity of 48.2 units per hour each, and maximum enamel usage (including basecoat and topcoat) 0.04 gallons per unit, with emissions exhausting to stacks 52 and 69, respectively.

(2) Four (4) SICME model NEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 633-644U, 633-644L, 645-656U and 645-656L, installed in 1987, with a maximum capacity of 72.36 thousand units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.04 gallons per unit, with emissions exhausting to stacks 76, 86, 77 and 85, respectively.

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

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

D.2.1 VOC Limitation - Magnet Wire Coating Operations [326 IAC 8-2-8]

(a) Pursuant to 326 IAC 8-2-8 (Magnet Wire Coating Operations), the owner or operator shall not allow the discharge into the atmosphere of VOC in excess of 1.7 pounds of VOC per gallon of coating, excluding water, delivered to the coating applicator from magnet wire coating operations.

(b) Pursuant to 326 IAC 8-1-2(b), the enameling process lines VOC emission shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per gallon coating solids, allowed in (a).

The equivalency was determined by the following equation:

$$E = L/(1-L/D))$$

Where

L = Applicable emission limit from 326 IAC 8 in pounds of VOC per gallon of coating
D = Density of VOC in coating in pounds per gallon of VOC
E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied

Actual solvent density shall be used to determine compliance of surface coating operation using the compliance methods in 326 IAC 8-1-2(a).

(c) The pounds of VOC per gallon of coating solids shall be limited to less than 2.21, where L is equal to 1.7 pounds of VOC per gallon of coating and D is equal to 7.36 pounds of VOC per gallon of coating.

(d) Pursuant to 326 IAC 8-1-2(c), the overall efficiency of the catalytic or thermal oxidizers shall be no less than the equivalent overall control efficiency calculated by the following equation:

$$O = \frac{(V-E)}{V} \times 100$$

Where:

V = The actual VOC content of the coating or, if multiple coatings are used, the daily weighted average VOC content of all coatings, as applied to the subject coating line as determined by the applicable test methods and procedures specified in 326 IAC 8-1-4 in units of pounds of VOC per gallon of coating solids as applied.

E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.

O = Equivalent overall efficiency of the capture system and control device as a percentage.

The overall efficiency of the oxidizers controlling the magnet wire ovens shall be 98.5% or greater.

Compliance Determination Requirements

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-4][326 IAC 8-1-2]

(a) Pursuant to 326 IAC 8-1-2(a), the Permittee shall operate the internal thermal oxidizers and thermal incinerators at all times the respective facilities are in operation in order to achieve compliance with Condition D.2.1.

(b) Compliance with the VOC emission limitations contained in Condition D.2.1 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.

D.2.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.0.1, D.0.2 and D.2.1, the Permittee shall conduct performance tests to verify VOC and HAP control efficiency as listed below. If the representative oven that is required to be tested has not been in operation for at least six (6) months prior to the test deadline, another similar oven in the same group of ovens shall be tested. If none of the ovens in a particular test group has been in operation for at least six (6) months prior to the test deadline, then the Permittee is not required to conduct testing for that group. However, upon startup of any oven in a test group that has not been in operation for at least six (6) months prior to the test deadline, the Permittee shall conduct performance test to verify VOC and/or HAP control efficiency within ninety (90) days of startup of that oven.

(a) Prior to April 1, 2008, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal catalytic oxidizer and thermal incinerator using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 429-432, 433-436, 437-440 or 441-444. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(b) Prior to December 16, 2009, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 625-632U, 625-632L, 633-644U, 633-644L, 645-656U or 645-656L. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(c) Before using a coating that would lead to a higher VOC loading in pounds per hour than what was used during the stack tests required in (a), (b), and (c) above, the Permittee shall conduct a performance test to verify VOC control efficiency for thermal oxidizers using methods approved by the Commissioner.

(d) For a higher VOC content coating than that used during the stack tests in (a), (b), and (c) above, the following procedure shall be followed:

(1) Calculate the new maximum VOC loading (L_{new}) for the higher VOC content enamel;

(2) Calculate the current maximum VOC loading ($L_{current}$);

(3) If L_{new} is lower than $L_{current}$, Permittee shall be allowed to use the higher VOC content enamel.

(e) Within twelve (12) months of issuance of this permit, the Permittee shall perform HAP testing of the following oven groups, utilizing methods as approved by the Commissioner, for the HAP used at the source that has the lowest destruction efficiency, as estimated by the manufacturer and approved by IDEM. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Stack testing shall be performed in accordance with 326 IAC 3-6. HAP testing shall be conducted on:

(1) One representative add-on thermal oxidizer from the three oxidizers that control any of the following: the three (3) MOCO magnet wire ovens listed in Section D.1, the three (3) GEM gas fired wire enameling ovens identified as emission units 429-432, 433-436 and 437-440 (listed in Section D.2), or one (1) GEI electric wire enameling oven identified as emission unit 441-444 (listed in Section D.2), shall be tested. The thermal oxidizer tested shall be the oxidizer in which the longest amount of time has elapsed since its previous test.

(2) One of the following ovens: 625-632U, 625-632L, 633-644U, 633-644L, 645-656U, 645-656L (listed in Section D.2), 701-701, 703-704, 705, 706, 707-708, 709-710, 711-712, 713-714, 715-716, 595-596, 597-598, 599-600, 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738, 739-740, 317-322, 323-328, 329-334, 335-340, 801-808, 809-816, 817-824, 825-832, 753, 754, 741, 742, 743, 744, 745, 746, 747, 748, 833, 834, 835, 836, 837, 838, 839, and 840 (listed in Section D.3). The oven tested shall be the one for which the longest amount of time has elapsed since its previous test.

(f) For a higher HAP content coating than that used during the stack tests in (f) above, the following procedure shall be followed:

(1) Calculate the new maximum HAP loading (L_{new}) for the higher VOC content enamel;

(2) Calculate the current maximum HAP loading ($L_{current}$);

(3) If L_{new} is lower than $L_{current}$, Permittee shall be allowed to use the same destruction efficiency for calculations for the higher HAP content enamel.

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

D.2.4 Thermal Oxidizer Operation

(a) Until the latest approved stack test results are available for ovens 429-432, 433-436, 437-440 and 441-444, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1150 degrees Fahrenheit.

(b) Until the latest approved stack test results are available for ovens 625-632U, 625-632L, 633-644U, 633-644L, 645-656U or 645-656L, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature of 1154 degrees Fahrenheit.

(c) The Permittee shall determine the 3 hour block average minimum temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.2.1, as approved by IDEM.

(d) In order to demonstrate compliance with Condition D.2.1, from the date of the approved stack test results are available, the Permittee shall maintain the thermal oxidizer at or above the 3 hour block average minimum temperature as observed during the compliant stack test to maintain an overall control efficiency of not less than ninety eight and five-tenths percent (98.5%) of volatile organic compound (VOC).

D.2.5 Parametric Monitoring

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature of the thermal oxidizer. For the purposes of this condition, continuous monitoring shall mean no less often than once per fifteen (15) minutes. The output from this monitoring system and the three hour average temperatures shall be recorded whenever the thermal oxidizer is in operation.

(b) If the primary continuous monitoring system is not in operation, the oxidizer temperature will be recorded using some manner of secondary system, such as with back-up electro-mechanical hardware or manually if necessary. Nothing in this permit shall excuse the Permittee from complying with the requirement to continuously monitor the temperature of the thermal oxidizer. Continuous monitoring shall mean no less often than once per fifteen (15) minutes.

(c) The oxidizer shall operate such that if the three-hour average temperature falls below the 3 hour block average minimum required temperature (setpoint) as determined by the latest stack test, corrective actions shall be taken to return the thermal oxidizer to at least the required minimum temperature setpoint within 15 minutes. Corrective action must return oxidizer temperature to or above the minimum setpoint within thirty (30) minutes of the corrective action, or the enamel flow to the oven shall be shut off. Failure to take corrective action or failure to shut off the enamel flow as stated above shall be considered a deviation from this permit.

(d) All actions described in paragraph (c) above must be taken in accordance with Condition C.14 - Response to Excursions or Exceedances and failure to take action consistent with Condition C.14 - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.2.6 Record Keeping Requirements

(a) To document compliance with Conditions D.2.1 and D.2.4, the Permittee shall maintain the following records:

(1) The VOC content of each coating, solvent, lubricant and cleanup solvent used. Records shall include purchase orders, invoices, "as supplied" and "as applied"

VOC and HAP data sheets from the manufacturer, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(2) The continuous temperature records and 3 hour average temperature records.

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

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(d) Eight (8) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714 and 715-716, installed in 1994, with a maximum capacity of 81.6 units per hour each, and maximum enamel usage (including base coat and top coat nylon) of 0.014 gallons per unit, with emissions exhausting to stacks 115, 116, 117, 118, 119, 120, 121 and 122, respectively.

(e) The following SICME model SEL electric wire enameling ovens:

(1) Three (3) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 595-596, 597-598 and 599-600, installed in 1994, with a maximum capacity of 19.56 units per hour each, and maximum enamel usage (including base coat and top coat) of 0.03 gallons per unit, with emissions exhausting to stacks 131, 132 and 133, respectively.

(2) Four (4) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 725-726, 727-728, 729-730 and 731-732, installed in 1995, with a maximum capacity of 55.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.01 gallons per unit, with emissions exhausting to stacks 134, 135, 136, 137, respectively.

(3) Four (4) SICME model SEL electric wire enameling ovens with internal thermal oxidizers, identified as emission units 733-734, 735-736, 737-738 and 739-740, installed in 1996, with a maximum capacity of 55.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.01 gallons per unit, with emissions exhausting to stacks 138, 139, 140 and 141, respectively.

(f) Two (2) SICME model NEVG gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 301-308 and 309-316, installed in 1995, with a maximum capacity of 84.96 units per hour each, and maximum enamel usage (including base coat and top coat) of 0.04 gallons per unit, with emissions exhausting to stacks 88 and 89, respectively.

(g) Three (3) SICME model NEMG gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 601-612 , 613-624 and 669-680, installed in 1995, with a maximum capacity of 195.12 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.015 gallons per unit, with emissions exhausting to stacks 101, 100 and 87 respectively.

(h) Eight (8) MAG HES-2 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 741, 742, 743, 744, 745, 746, 747 and 748, installed in 1995, with a maximum of 93.0 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.006 gallons per unit, with emissions exhausting to stacks 150, 151, 152, 153, 154, 155, 156 and 157, respectively.

(i) Four (4) Weather-Rite V-22 gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 467/468/469/470, 475/476/477/478, 479, and 480, installed in 1995, with a maximum of 30.6 units per hour each, and maximum enamel usage of 0.146 gallons per unit, with emissions exhausting to stacks 148, 149, 67 and 68, respectively.

(j) Four (4) Weather-Rite V-22 gas fired wire enameling ovens with internal thermal oxidizers, identified as emission units 445-447, 448-450, 461-463 and 464-466, installed in 1996, with a maximum of 30.6 units per hour each, and maximum enamel usage of 0.146 gallons per unit, with emissions exhausting to stacks 203, 204, 201, 202, respectively.

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

(k) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission units 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour each, and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting to stack 01.

(l) Four (4) SICME model SEV electric wire enameling ovens with internal thermal oxidizers, identified as emission units 317-322, 323-328, 329-334 and 335-340, installed in 1996, with a maximum capacity of 57.96 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.05 gallons per unit, with emissions exhausting to stacks 144, 145, 146 and 147, respectively.

(m) Four (4) SICME model SEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 801-808 and 809-816, installed in 1996, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 142 and 143, respectively.

(2) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 817-824 and 825-832, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 205 and 206, respectively.

(n) Eight (8) MAG HES-5 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 833, 834, 835, 836, 837, 838, 839, and 840, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 207, 208, 209, 210, 211, 212, 213 and 214, respectively.

(o) Two (2) SICME model SML electric wire enameling ovens with internal thermal oxidizers, identified as emission units 753 and 754, installed in 1997, with a maximum capacity of 40.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.026 gallons per unit, with emissions exhausting to stacks 217 and 218, respectively.

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

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

D.3.1 VOC Limitation - Magnet Wire Coating Operations [326 IAC 8-2-8]

(a) Pursuant to 326 IAC 8-2-8 (Magnet Wire Coating Operations), the owner or operator shall not allow the discharge into the atmosphere of VOC in excess of 1.7 pounds of VOC per gallon of coating, excluding water, delivered to the coating applicator from magnet wire coating operations.

(b) Pursuant to 326 IAC 8-1-2(b), the enameling process lines VOC emission shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per gallon coating solids, allowed in (a).

The equivalency was determined by the following equation:

$$E = L/(1-L/D))$$

Where

L = Applicable emission limit from 326 IAC 8 in pounds of VOC per gallon of coating

D = Density of VOC in coating in pounds per gallon of VOC
E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied

Actual solvent density shall be used to determine compliance of surface coating operation using the compliance methods in 326 IAC 8-1-2(a).

(c) The pounds of VOC per gallon of coating solids shall be limited to less than 2.21, where L is equal to 1.7 pounds of VOC per gallon of coating and D is equal to 7.36 pounds of VOC per gallon of coating.

(d) Pursuant to 326 IAC 8-1-2(c), the overall efficiency of the catalytic or thermal oxidizers shall be no less than the equivalent overall control efficiency calculated by the following equation:

$$O = \frac{(V-E)}{V} \times 100$$

Where:

V = The actual VOC content of the coating or, if multiple coatings are used, the daily weighted average VOC content of all coatings, as applied to the subject coating line as determined by the applicable test methods and procedures specified in 326 IAC 8-1-4 in units of pounds of VOC per gallon of coating solids as applied.

E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.

O = Equivalent overall efficiency of the capture system and control device as a percentage.

The overall efficiency of the oxidizers controlling the magnet wire ovens shall be equal to or greater than 98.5%.

Compliance Determination Requirements

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-4][326 IAC 8-1-2]

(a) Pursuant to 326 IAC 8-1-2(a), the Permittee shall operate the internal thermal oxidizers and thermal incinerators at all times the respective facilities are in operation in order to achieve compliance with Condition D.3.1.

(b) Compliance with the VOC emission limitations contained in Condition D.3.1 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.

D.3.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.0.1, D.0.2, and D.3.1, the Permittee shall conduct performance tests to verify VOC and HAP control efficiency as listed below. If the representative oven that is required to be tested has not been in operation for at least six (6) months prior to the test deadline, another similar oven in the same group of ovens shall be tested. If none of the ovens in a particular test group has been in operation for at least six (6) months prior to the test deadline, then the Permittee is not required to conduct testing for that group. However, upon startup of any oven in a test group that has not been in operation for at least six (6) months prior to the test deadline, the Permittee shall conduct performance test to verify VOC and/or HAP control efficiency within ninety (90) days of startup of that oven.

(a) Prior to June 8, 2010, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714, or 715-716. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(b) Within twelve (12) months of issuance of this permit, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 741, 742, 743, 744, 745, 746, 747 or 748. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(c) Prior to December 7, 2010, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738 or 739-740. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(d) Within twelve (12) months of issuance of this permit, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 801-808, 809-816, 817-824 or 825-832. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(e) Prior to April 24, 2011, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 833, 834, 835, 836, 837, 838, 839 and 840. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(f) Prior to April 25, 2011, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 753 or 754. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(g) Prior to August 1, 2008, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 601-612, 613-624 or 669-680. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(h) Within twelve (12) months of issuance of this permit, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using

methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 467/468/469/470, 475/476/477/478, 479, 480, 445-447, 448-450, 461-463, 464-466 and 405-406. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(i) Within twelve (12) months of issuance of this permit, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 301-308 or 309-316. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(j) Within twelve (12) months of issuance of this permit, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 317-322, 323-328, 329-334 or 335-340. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(k) Before using a coating that would lead to a higher VOC loading in pounds per hour than what was used during the stack tests required in (a), (b), and (c) above, the Permittee shall conduct a performance test to verify VOC control efficiency for thermal oxidizers using methods approved by the Commissioner.

(l) For a higher VOC content coating than that used during the stack tests in (a), (b), and (c) above, the following procedure shall be followed:

(1) Calculate the new maximum VOC loading (L_{new}) for the higher VOC content enamel;

(2) Calculate the current maximum VOC loading ($L_{current}$);

(3) If L_{new} is lower than $L_{current}$, Permittee shall be allowed to use the higher VOC content enamel.

(m) Within twelve (12) months of issuance of this permit, the Permittee shall perform HAP testing of the following oven groups, utilizing methods as approved by the Commissioner, for the HAP used at the source that has the lowest destruction efficiency, as estimated by the manufacturer and approved by IDEM. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Stack testing shall be performed in accordance with 326 IAC 3-6. HAP testing shall be conducted on:

(1) One of the following ovens: 625-632U, 625-632L, 633-644U, 633-644L, 645-656U, 645-656L (listed in Section D.2), 701-701, 703-704, 705, 706, 707-708, 709-710, 711-712, 713-714, 715-716, 595-596, 597-598, 599-600, 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738, 739-740, 317-322, 323-328, 329-334, 335-340, 801-808, 809-816, 817-824, 825-832, 753, 754, 741, 742, 743, 744, 745, 746, 747, 748, 833, 834, 835, 836, 837, 838, 839, and 840 (listed in Section D.3). The oven tested shall be the one for which the longest amount of time has elapsed since its previous test.

(2) One of the following ovens: 467/468/469/470, 475/476/477/478, 479, 480, 445-447, 448-450, 461-463, 464-466, 301-308, 309-316 and 405-406. The oven

tested shall be the one for which the longest amount of time has elapsed since its previous test.

(n) For a higher HAP content coating than that used during the stack tests in (n) above, the following procedure shall be followed:

(1) Calculate the new maximum HAP loading (L_{new}) for the higher VOC content enamel;

(2) Calculate the current maximum HAP loading ($L_{current}$);

(3) If L_{new} is lower than $L_{current}$, Permittee shall be allowed to use the same destruction efficiency for calculations for the higher HAP content enamel.

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

D.3.4 Thermal Oxidizer Operation

(a) Until the latest approved stack test results are available for ovens 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714, 715-716, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1234 degrees Fahrenheit.

(b) Until the latest approved stack test results are available for ovens 741, 742, 743, 744, 745, 746, 747 and 748, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 921 degrees Fahrenheit.

(c) Until the latest approved stack test results are available for ovens 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738 and 739-740, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1050 degrees Fahrenheit.

(d) Until the latest approved stack test results are available for ovens 801-808, 809-816, 817-824 and 825-832, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1090 degrees Fahrenheit.

(e) Until the latest approved stack test results are available for ovens 833, 834, 835, 836, 837, 838, 839 and 840, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 965 degrees Fahrenheit.

(f) Until the latest approved stack test results are available for ovens 753 and 754, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature of 1110 degrees Fahrenheit.

(g) Until the latest approved stack test results are available for ovens 601-612, 613-624 and 669-680, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1350 degrees Fahrenheit.

(h) Until the latest approved stack test results are available for ovens 445-447, 448-450, 461-463 and 464-466, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1375 degrees Fahrenheit.

(i) Until the latest approved stack test results are available for ovens 301-308 and 309-316, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1190 degrees Fahrenheit.

(j) Until the latest approved stack test results are available for ovens 317-322, 323-328, 329-334 and 335-340, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1200 degrees Fahrenheit.

(k) Until the latest approved stack test results are available for ovens 595-596, 597-598 and 599-600, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1199 degrees Fahrenheit.

(l) Until the latest approved stack test results are available for ovens 467/468/469/470, 475/476/477/478, 479, and 480, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1375 degrees Fahrenheit.

(m) Until the latest approved stack test results are available for oven, identified as 405-406, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1300 degrees Fahrenheit.

(n) The Permittee shall determine the 3 hour block average minimum temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.3.1, as approved by IDEM.

(o) In order to demonstrate compliance with Condition D.3.1, from the date of the approved stack test results are available, the Permittee shall maintain the thermal oxidizer at or above the 3 hour block average minimum temperature as observed during the compliant stack test to maintain an overall control efficiency of not less than ninety eight and five-tenths percent (98.5%) of volatile organic compound (VOC).

D.3.5 Parametric Monitoring

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature of the thermal oxidizer. For the purposes of this condition, continuous monitoring shall mean no less often than once per fifteen (15) minutes. The output from this monitoring system and the three hour average temperatures shall be recorded whenever the thermal oxidizer is in operation.

(b) If the primary continuous monitoring system is not in operation, the oxidizer temperature will be recorded using some manner of secondary system, such as with back-up electro-mechanical hardware or manually if necessary. Nothing in this permit shall excuse the Permittee from complying with the requirement to continuously monitor the temperature of the thermal oxidizer. Continuous monitoring shall mean no less often than once per fifteen (15) minutes.

(c) The oxidizer shall operate such that if the three-hour average temperature falls below the 3 hour block average minimum required temperature (setpoint) as determined by the latest stack test, corrective actions shall be taken to return the thermal oxidizer to at least the required minimum temperature setpoint within 15 minutes. Corrective action must return oxidizer temperature to or above the minimum setpoint within thirty (30) minutes of the corrective action, or the enamel flow to the oven shall be shut off. Failure to take corrective action or failure to shut off the enamel flow as stated above shall be considered a deviation from this permit.

(d) All actions described in paragraph (c) above must be taken in accordance with Condition C.14 - Response to Excursions or Exceedances and failure to take action consistent with Condition C.14 - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.3.6 Record Keeping Requirements

(a) To document compliance with Conditions D.3.1 and D.3.4, the Permittee shall maintain the following records:

(1) The VOC content of each coating, solvent, lubricant and cleanup solvent used. Records shall include purchase orders, invoices, "as supplied" and "as applied" VOC data sheets from the manufacturer, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(2) The continuous temperature records and 3 hour average temperature records.

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

SECTION D.4 FACILITY OPERATION CONDITIONS

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

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

(1) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1996. [326 IAC 6-2-4]

(2) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1997. [326 IAC 6-2-4]

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

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

D.4.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the particulate emissions from the two (2) 5.0 MMBtu/hr natural gas fired boilers shall be limited to 0.599 lb/MMBtu. The following equation is used to determine the emissions limit:

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

Where:

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

Q = Total source maximum operating capacity in million Btu/hr (MMBtu/hr) heat input.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Rea Magnet Wire Company
Source Address: 2800 Concord Road, Lafayette, Indiana 47909
Mailing Address: 2800 Concord Road, Lafayette, Indiana 47909
Part 70 Permit No.: T157-17638-00032

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name:	Rea Magnet Wire Company
Source Address:	2800 Concord Road, Lafayette, Indiana 47909
Mailing Address:	2800 Concord Road, Lafayette, Indiana 47909
Part 70 Permit No.:	T157-17638-00032

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

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name:	Rea Magnet Wire Company
Source Address:	2800 Concord Road, Lafayette, Indiana 47909
Mailing Address:	2800 Concord Road, Lafayette, Indiana 47909
Part 70 Permit No.:	T157-17638-00032
Facility:	All magnet wire ovens
Parameter:	Single and combined HAPs: Total emissions, including coatings, solvents, and lubricants.
Limit:	Less than 9.5 tons and 24.0 tons of any single HAP and combined HAPs respectively per twelve (12) consecutive month period, with compliance determined at the end of each month.

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

Part 70 Quarterly Report

Source Name:	Rea Magnet Wire Company
Source Address:	2800 Concord Road, Lafayette, Indiana 47909
Mailing Address:	2800 Concord Road, Lafayette, Indiana 47909
Part 70 Permit No.:	T157-17638-00032
Facility:	Source-wide emissions
Parameter:	VOC: Total emissions, including coatings, solvents, and lubricants, and emissions from insignificant activities
Limit:	Less than 250 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Rea Magnet Wire Company
Source Address: 2800 Concord Road, Lafayette, Indiana 47909
Mailing Address: 2800 Concord Road, Lafayette, Indiana 47909
Part 70 Permit No.: T157-17638-00032

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".
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.
☐ 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 Part 70 **Minor Source and Permit** Modification.

Source Description and Location

Source Name:	Rea Magnet Wire Company
Source Location:	2800 Concord Road, Lafayette, Indiana 47909
County:	Tippecanoe
SIC Code:	3357
Operation Permit No.:	T 157-17638-00032
Operation Permit Issuance Date:	December 29, 2006
Minor Source Modification No:	157-25239-00032
Minor Permit Modification No:	157-25224-00032
Permit Reviewer:	Josiah Balogun

Existing Approvals

The source was issued Part 70 Operating Permit No. T157-17638-00032 on December 29, 2006.

County Attainment Status

The source is located in Tippecanoe County.

Pollutant	Status
PM_{10}	attainment
$PM_{2.5}$	attainment
SO_2	attainment
NO_2	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Tippecanoe County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Tippecanoe County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.

(c) Tippecanoe County has been classified as attainment or unclassifiable for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Fugitive Emissions
Since this type of operation is 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.

Source Status

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

Pollutant	Emissions (tons/year)
PM	0.1
PM10	0.3
SO_2	0.03
VOC	< 250
CO	3.6
NO_x	4.3

Note: The Ovens utilize internal thermal oxidizers to control VOC emissions. Therefore, PTE is calculated after the thermal oxidizers.

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

(b) These emissions are based upon Part 70 Operating Permit T157-17638-00032, issued on December 29, 2006

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

HAPs	Potential To Emit (tons/year)
Ethyl Benzene	less than 10
Xylene	less than 10
Cumene	less than 10
Phenol	less than 10
Cresols	less than 10
Naphtlalene	less than 10
Chromium	less than 10
cadmium	less than 10
Hexane	less than 10
Lead	less than 10
TOTAL	less than 25

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2004 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	NA
PM10	1
SO_2	0
VOC	159
CO	10
NO_x	12
Pb	0.0

NA: Data not available

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Rea Magnet Wire Company on August 30, 2007, relating to the replacement of the GEM oven 401-404 with a Weather-Rite V-26 oven, identified as 405-406. The following is a list of the modified emission unit and pollution control device:

(a) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission unit 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting through stack 01.

Enforcement Issues

IDEM is aware that equipment the Permittee did not apply for permit before the 30 days period of construction of the new oven. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (ft)	Flow rate (acfm)	Temperature (^oF)
01	Oven	64	1	2000	1100

Emission Calculations

See Appendix A of this document for detailed emission calculations (1 through to 6).

Permit Level Determination – Part 70

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

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

Pollutant	Potential To Emit (tons/year)
PM	0
PM10	0
SO_2	0
VOC	211.88
CO	0
NO_x	0

HAPs	Potential To Emit (tons/year)
Benzene	0.81
Xylene	4.45
Cumene	1.74
Phenol	52.63
Cresol	3.77
Naphthalene	2.08
TOTAL	65.47

The Part 70 operating permit is being modified through a Part 70 minor source modification. This modification is performed pursuant to 326 IAC 2-7-10.5(d)(8)because it is a replacement unit which is of the same type that are already permitted and will comply with the same applicable requirements and permit terms and conditions as the emission unit replaced and will not result in a PTE greater than the threshold in 326 IAC 2-2. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a Minor permit modification issued pursuant to 326 IAC 2-7-12(b)(1)(B).

Permit Level Determination – PSD

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

	Potential to Emit (tons/year)						
Process/Emission Unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**	**HAP**
405-406	0	0	0	3.18	0	0	single less than 9.5 Total less than 24
Total for source after modification	0.1	0.3	0.03	< 250	3.6	4.3	single less than 10 Total less than 25
Major Source Threshold	250	250	250	250	250	250	

This modification to an existing minor stationary source is not major because the source wide VOC emissions including VOC emissions after the modification will still be less than the PSD major source threshold. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

Federal Rule Applicability Determination

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

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

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

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

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

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

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
405-406 VOC	Y	Y	211.88	3.18	100	Y	N
405-406-HAP	Y	Y	Single >10 Total >25	0.98	10/25	Y	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the oven, identified as 405-406 for VOC and HAPs. A CAM plan must be submitted as part of the next Renewal application.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)
PSD applicability is discussed under the Permit Level Determination - PSD section.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The sourcewide HAPs emission including HAPs emissions from the Weather-Rite V - 26, identified as 405-406 will be limited to less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1 is not applicable to this emission unit.

326 IAC 8-1-6 (New Facilities: General Reduction Requirements)
The WeatherRite V - 26, identified as 405-406 wire enameling ovens was constructed after January 1, 1980 and is located in Tippecanoe County. However, the oven is regulated under 326 IAC 8-2-8. Therefore, the requirements of 326 IAC 8-1-6 is not applicable to this emission unit.

326 IAC 8-2-8 (Magnet Wire Coating Operations)
(a) Pursuant to 326 IAC 8-2-8 (Magnet Wire Coating Operations), the permittee shall not allow the discharge into the atmosphere of VOC in excess of 1.7 pounds of VOC per gallon of coating, excluding water, delivered to the coating applicator from this oven.

(b) Pursuant to 326 IAC 8-1-2(b), the enameling process lines VOC emission shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per gallon coating solids, allowed in (a).

The equivalency was determined by the following equation:

$$E = L/(1-L/D))$$

Where:

L = Applicable emission limit from 326 IAC 8 in pounds of VOC per gallon of coating

D = Density of VOC in coating in pounds per gallon of VOC

E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied

Actual solvent density shall be used to determine compliance of surface coating operation using the compliance methods in 326 IAC 8-1-2(a).

(c) The pounds of VOC per gallon of coating solids shall be limited to less than 2.21, where L is equal to 1.7 pounds of VOC per gallon of coating and D is equal to 7.36 pounds of VOC per gallon of coating.

(d) Pursuant to 326 IAC 8-1-2(c), the overall efficiency of the thermal oxidizers shall be no less than the equivalent overall control efficiency calculated by the following equation:

$$O = \frac{(V-E)}{V} X\ 100$$

Where:

V = The actual VOC content of the coating or, if multiple coatings are used, the daily weighted average VOC content of all coatings, as applied to the subject coating line as determined by the applicable test methods and procedures specified in 326 IAC 8-1-4 in units of pounds of VOC per gallon of coating solids as applied.

E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.

O = Equivalent overall efficiency of the capture system and control device as a percentage.

The overall efficiency of the oxidizers controlling the magnet wire ovens shall be equal to or greater than 98.5%.

Testing Requirements

This Weather-Rite V-26 gas-fired oven, identified as 405-406 formerly, identified as 290 was tested for VOC and HAP emissions on July 2005 at its previous Fort Wayne facility belonging to Rea magnet. This oven's next testing will be performed according to the schedule of section grouping at the source.

Compliance Determination and Monitoring Requirements

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

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

period.

The Compliance Determination Requirements applicable to this modification are as follows:

Emission Units	Frequency	Parameters
Thermal oxidizer for oven 405-406	Continuous monitoring and 3 hour average	Temperature

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T157-17638-00032. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change 1 IDEM has determined that it is not necessary to include the name or title of the responsible official in Section A.1 of the permit. The responsible official has been deleted.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary magnet wire coating operation.

~~Responsible Official: Executive Vice President of Operations and Planning~~

Change 2 One (1) Weather-Rite oven V-26 has been added to the emission units in Section A.2. and the GEM oven has been deleted from the permit.

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

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

(b) ~~Five (5)~~ **Four (4)** wire enameling ovens with internal thermal oxidizers and add-on thermal incinerators for control:

(1) ~~Four (4)~~ **Three (3)** GEM gas fired wire enameling oven with internal thermal oxidizers, identified as emissions units ~~401-404,~~ 429-432, 433-436 and 437-440, installed in 1982, with a maximum capacity rating of 31.68 thousand feet of wire per hour each, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 1, 8, 9 and 10 respectively.

.....

(k) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission unit 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting through stack 01.

~~(k)~~**(l)** Four (4) SICME model SEV electric wire enameling ovens with internal thermal oxidizers, identified as emission units 317-322, 323-328, 329-334 and 335-340, installed in 1996, with a maximum capacity of 57.96 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.05 gallons per unit, with emissions exhausting to stacks 144, 145, 146 and 147, respectively.

~~(l)~~ **(m)** Four (4) SICME model SEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 801-808 and 809-816, installed in 1996, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 142 and 143, respectively.

(2) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 817-824 and 825-832, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 205 and 206, respectively.

~~(m)~~**(n)** Eight (8) MAG HES-5 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 833, 834, 835, 836, 837, 838, 839, and 840, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 207, 208, 209, 210, 211, 212, 213 and 214, respectively.

~~(n)~~**(o)** Two (2) SICME model SML electric wire enameling ovens with internal thermal oxidizers, identified as emission units 753 and 754, installed in 1997, with a maximum capacity of 40.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.026 gallons per unit, with emissions exhausting to stacks 217 and 218, respectively.

Change 3 One (1) weather-rite V-26 oven was included in the Section D.0., the GEM oven, identified as 401-404 has been removed from the permit and Condition D.0.1 has been revised accordingly.

SECTION D.0 FACILITY OPERATION CONDITIONS

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

(b) ~~Five (5)~~ **Four (4)** wire enameling ovens with internal thermal oxidizers and add-on thermal incinerators for control:

(1) ~~Four (4)~~**Three (3)** GEM gas fired wire enameling oven with internal thermal oxidizers, identified as emissions units ~~401-404,~~ 429-432, 433-436 and 437-440, installed in 1982, with a maximum capacity rating of 67.2 units per hour each, and maximum enamel usage rate of 0.12 gallon per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 1, 8, 9 and 10 respectively;

.....

(k) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission units 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour each, and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting to stack 01.

~~(k)~~**(l)** Four (4) SICME model SEV electric wire enameling ovens with internal thermal oxidizers, identified as emission units 317-322, 323-328, 329-334 and 335-340, installed in 1996, with a maximum capacity of 57.96 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.05 gallons per unit, with emissions exhausting to stacks 144, 145, 146 and 147, respectively.

~~(l)~~**(m)** Four (4) SICME model SEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 801-808 and 809-816, installed in 1996, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 142 and 143, respectively.

(2) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 817-824 and 825-832, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 205 and 206, respectively.

~~(m)~~**(n)** Eight (8) MAG HES-5 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 833, 834, 835, 836, 837, 838, 839, and 840, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 207, 208, 209, 210, 211, 212, 213 and 214, respectively.

~~(n)~~**(o)** Two (2) SICME model SML electric wire enameling ovens with internal thermal oxidizers, identified as emission units 753 and 754, installed in 1997, with a maximum capacity of 40.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.026 gallons per unit, with emissions exhausting to stacks 217 and 218, respectively.

~~(o)~~**(p)** Insignificant Activities:

Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:

(1) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1996. [326 IAC 6-2-4]

(2) One (1) 5.0 MMBtu/hr natural gas fired boiler, installed in 1997. [326 IAC 6-2-4]

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

D.0.1 Prevention of Significant Deterioration Minor Limit [326 IAC 2-2]

.....

(c) The internal thermal oxidizer for each magnet wire enameling oven (units 301-308, 309-316, 317-322, 323-328, 329-334, 335-340, 467/468/469/470, 475/476/477/478, 479, 480, 445-447, 448-450, 461-463, 464-466, 601-612, 613-624, 625-632U, 625-632L, 633-644U, 633-644L, 645-656U, 645-656L, 669-680, 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714, 715-716, 595-596, 597-598, 599-600, 741, 742, 743, 744, 745, 746, 747, 748, 753, 754, 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738, 739-740, 801-808, 809-816, 817-824, 825-832, 833, 834, 835, 836, 837, 838, 839, 840 **and 405-406**) shall, in aggregate, achieve an overall efficiency of at least ninety-eight and five tenths percent (98.5%).

.....

Change 4 The one (1) GEM emission unit in Section 2, identified as 401-404 has been removed from the permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

.....

(b) ~~Five (5)~~ **Four (4)** wire enameling ovens with an internal catalytic oxidizer and add-on thermal incinerators for control:

(1) ~~Four (4)~~ **Three (3)** GEM gas fired wire enameling ovens, identified as emission units ~~401-404~~, 429-432, 433-436 and 437-440, installed in 1982, with a maximum capacity of 67.2 units per hour each, and maximum enamel usage rate of 0.12 gallon per unit, with emissions controlled by add-on thermal incinerators, and exhausting to stacks 1, 8, 9 and 10 respectively.

.....

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

Change 5 The weather-rite V-26 oven has been added to Section D.3. And all the applicable requirements in Conditions D.3.1, D.3.3, D.3.4 and D.3.5 have been revised accordingly.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(k) One (1) Weather-Rite V-26 gas fired wire enameling oven with internal thermal oxidizer, identified as emission units 405-406, constructed in 2007, with a maximum capacity of 24.0 units per hour each, and maximum enamel usage of 0.3091 gallons per unit, with emissions exhausting to stack 01.

~~(k)~~**(l)** Four (4) SICME model SEV electric wire enameling ovens with internal thermal oxidizers, identified as emission units 317-322, 323-328, 329-334 and 335-340, installed in 1996, with a maximum capacity of 57.96 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.05 gallons per unit, with emissions exhausting to stacks 144, 145, 146 and 147, respectively.

~~(l)~~**(m)** Four (4) SICME model SEM electric wire enameling ovens with an internal thermal oxidizer for control:

(1) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 801-808 and 809-816, installed in 1996, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 142 and 143, respectively.

(2) Two (2) SICME model SEM electric wire enameling ovens with internal thermal oxidizers, identified as emission units 817-824 and 825-832, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 205 and 206, respectively.

~~(m)~~**(n)** Eight (8) MAG HES-5 electric wire enameling ovens with internal thermal oxidizers, identified as emission units 833, 834, 835, 836, 837, 838, 839, and 840, installed in 1997, with a maximum capacity of 174.2 units per hour each, and maximum enamel usage of 0.034 gallons per unit, with emissions exhausting to stacks 207, 208, 209, 210, 211, 212, 213 and 214, respectively.

~~(n)~~**(o)** Two (2) SICME model SML electric wire enameling ovens with internal thermal oxidizers, identified as emission units 753 and 754, installed in 1997, with a maximum capacity of 40.8 units per hour each, and maximum enamel usage (including basecoat and topcoat) of 0.026 gallons per unit, with emissions exhausting to stacks 217 and 218, respectively.

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

D.3.1 VOC Limitation - Magnet Wire Coating Operations [326 IAC 8-2-8]

.....

The overall efficiency of the oxidizers controlling the magnet wire ovens shall be **equal to or** greater than 98.5%**.**

D.3.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

.....

(h) Within twelve (12) months of issuance of this permit, the Permittee shall conduct a performance test to verify the VOC control efficiency for the internal thermal oxidizer using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6. The test shall be performed on one of the following ovens: 467/468/469/470, 475/476/477/478, 479, 480, 445-447, 448-450, 461-463, 464-466 **and 405-406**. The oven tested shall be the oven in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(m) Within twelve (12) months of issuance of this permit, the Permittee shall perform HAP testing of the **following oven groups** ~~internal thermal oxidizer (or for ovens equipped with a thermal incinerator, the internal thermal oxidizer and the external thermal incinerator combined)~~ utilizing methods as approved by the Commissioner, for the HAP used at the source that has the lowest destruction efficiency, as estimated by the manufacturer and approved by IDEM. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Stack testing shall be performed in accordance with 326 IAC 3-6. HAP testing shall be conducted on:

.....

(2) One of the following ovens: 467/468/469/470, 475/476/477/478, 479, 480, 445-447, 448-450, 461-463, 464-466, 301-308, 309-316 **and 405-406**. The oven tested shall be the one for which the longest amount of time has elapsed since its previous test.

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

D.3.4 Thermal Oxidizer Operation

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(m) Until the latest approved stack test results are available for oven, identified as 405-406, the Permittee shall maintain the thermal oxidizer's 3 hour average temperature at or above 1300 degrees Fahrenheit.

~~(m)~~**(n)** The Permittee shall determine the 3 hour block average minimum temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.3.1, as approved by IDEM.

~~(n)~~**(o)** In order to demonstrate compliance with Condition D.3.1, from the date of the approved stack test results are available, the Permittee shall maintain the thermal oxidizer at or above the 3 hour block average minimum temperature as observed during the compliant stack test to maintain an overall control efficiency of not less than ninety eight and five-tenths percent (98.5%) of volatile organic compound (VOC).

Change 6 There was a typo in the zip code. The typo has been corrected.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Rea Magnet Wire Company
Source Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Mailing Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Part 70 Permit No.: T157-17638-00032

.....

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Rea Magnet Wire Company
Source Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Mailing Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Part 70 Permit No.: T157-17638-00032

.....

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

Part 70 Quarterly Report

Source Name: Rea Magnet Wire Company
Source Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Mailing Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Part 70 Permit No.: T157-17638-00032

.....

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

Part 70 Quarterly Report

Source Name: Rea Magnet Wire Company
Source Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Mailing Address: 2800 Concord Road, Lafayette, Indiana ~~47905~~ **47909**
Part 70 Permit No.: T157-17638-00032

.....

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name:	Rea Magnet Wire Company
Source Address:	2800 Concord Road, Lafayette, Indiana 47905 **47909**
Mailing Address:	2800 Concord Road, Lafayette, Indiana 47905 **47909**
Part 70 Permit No.:	T157-17638-00032

.....

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 157-25239-00032 and Minor Permit Modification No. 157-25224-00032. The staff recommends to the Commissioner that this Part 70 Minor or Source and Minor Permit Modification be approved.

Appendix A: Emissions Calculations
Emission Summary Sheet

Company Name: Rea Magnet Wire Company
Address: 2800 Concord Road, Lafayette, Indiana 47909
Permit Number: MPM157-25224-00032
Reviewer: Josiah Balogun
Date: 24-Oct-07

Uncontrolled Potential Emissions (tons/year)							
	PM (tons/yr)	PM_{10} (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Units							
405-406	0	0	0	211.88	0	0	65.47
Total Emissions	0	0	0	211.88	0	0	65.47

Controlled Potential Emissions (tons/year)							
	PM (tons/yr)	PM_{10} (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Units							
405-406	0	0	0	3.18	0	0	0.98
Total Emissions	0	0	0	3.18	0	0	0.98

Appendix A: Emissions Calculations
Uncontrolled VOC
From Surface Coating Operations

Company Name: Rea Magnet Wire Company
Address City IN Zip: 2800 Concord Road, Lafayette, Indiana 47909
Permit Number: MPM157-25224-00032
Reviewer: Josiah Balogun
Date: 24-Oct-07

Uncontrolled VOC Emissions

Oven ID	Materials	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Volume % Water	Weight % Organics	Maximum Throughput units (lbs/hour)	Usage (gal/lbs)	Pounds VOC per gallon of coating less water	Uncontrolled VOC (tons per year)	Efficiency (%) Required for control device	Uncontrolled VOC Emissions (tons/yr)
405-406	worst case	8.58	76.00%	0.0%	76.0%	24	0.3091	6.52	211.88	0.00%	211.88
Total Emissions									211.88		211.88

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Uncontrolled VOC (tons per Year) = Density (lbs/gal)* Weight of Organics (%)* usage (gal/lb)* Max.Throughput (lbs/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Equivalent Emission limit (lbs/gal coating solids) = 1.7/(1-1.7/Density (lbs/gal)
Efficiency (%) = lbs (VOC gal coating solids - Equivalent Emission limit (lbs/gal coating solids))/ lbs VOC/ gal coating solids
Controlled VOC (tons/yr) = Uncontrolled VOC (tons/yr) * Eff (%)

Appendix A: Emissions Calculations
Controlled VOC
From Surface Coating Operations

Company Name: Rea Magnet Wire Company
Address City IN Zip: 2800 Concord Road, Lafayette, Indiana 47909
Permit Number: MPM157-25224-00032
Reviewer: Josiah Balogun
Date: 24-Oct-07

Controlled VOC Emissions

Oven ID	Materials	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Volume % Water	Weight % Organics	Maximum Throughput units (lbs/hour)	Usage (gal/lbs)	Pounds VOC per gallon of coating less water	Uncontrolled VOC (tons per year)	Efficiency (%) Required for control device	Controlled VOC Emissions (tons/yr)
4.5-4.6	worst case	8.58	76.00%	0.0%	76.0%	24	0.3091	6.52	211.88	98.50%	3.18
Total Emissions									211.88		3.18

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Uncontrolled VOC (tons per Year) = Density (lbs/gal)* Weight of Organics (%)* usage (gal/lb)* Max.Throughput (lbs/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Equivalent Emission limit (lbs/gal coating solids) = 1.7/(1-1.7/Density (lbs/gal)
Efficiency (%) = lbs (VOC gal coating solids - Equivalent Emission limit (lbs/gal coating solids))/ lbs VOC/ gal coating solids
Controlled VOC (tons/yr) = Uncontrolled VOC (tons/yr) * Eff (%)

Appendix A: Emission Calculations
Magnet Wire Coating Ovens
Uncontrolled HAPs Emissions
Company Name: Rea Magnet Wire Company
Address City IN Zip: 2800 Concord Road, Lafayette, Indiana 47909
Permit Number: MPM157-25224-00032
Reviewer: Josiah Balogun
Date: 24-Oct-07

Oven ID	Density (lbs/gal)	Weight % VOC	Usage (gal/units)	Max Through Put unit (units/hr)	Weight of % Ethyl Benzene	Weight of % Xylene	Weight of % Cumene	Weight of % Phenol	Weight of % Cresols	Weight of % Naphthalene	Uncontrolled Ethyl Benzene Emissions (tons/yr)	Uncontrolled Xylene Emissions (tons/yr)	Uncontrolled Cumene Emissions (tons/yr)	Uncontrolled Phenol Emissions (tons/yr)	Uncontrolled Cresol Emissions (tons/yr)	Uncontrolled Naphthalene Emissions (tons/yr)	Total Uncontrolled HAPs Emissions (tons/yr)
405-406	8.58	76.00%	0.3091	24	0.38%	2.10%	0.82%	24.84%	1.78%	0.98%	0.81	4.45	1.74	52.63	3.77	2.08	65.47

Methodology
Uncontrolled HAPs Emissions per oven (tons/yr) = Density (lbs/gal) x Weight Percent VOC (%) x Usage (gal/unit) x Max. Throughput (units/hr) x 8760 (hrs/yr) x 1 ton/2,000 lbs.

Appendix A: Emission Calculations
Magnet Wire Coating Ovens
Controlled HAPs Emissions
Company Name: Rea Magnet Wire Company
Address City IN Zip: 2800 Concord Road, Lafayette, Indiana 47909
Permit Number: MPM157-25224-00032
Reviewer: Josiah Balogun
Date: 24-Oct-07

								Controlled HAPs Emissions						
Oven ID	Uncontrolled Ethyl Benzene Emissions (tons/yr)	Uncontrolled Xylene Emissions (tons/yr)	Uncontrolled Cumene Emissions (tons/yr)	Uncontrolled Phenol Emissions (tons/yr)	Uncontrolled cresol Emissions (tons/yr)	Uncontrolled Naphthalene Emissions (tons/yr)	Eff. (%) Required for control device	Controlled Ethyl Benzene Emissions (tons/yr)	Controlled Xylene Emissions (tons/yr)	Controlled Cumene Emissions (tons/yr)	Controlled Phenol Emissions (tons/yr)	Controlled cresol Emissions (tons/yr)	Controlled Naphthalene Emissions (tons/yr)	Total Controlled HAPs Emissions (tons/yr)
405-406	0.81	4.45	1.74	52.63	3.77	2.08	98.50%	0.01	0.07	0.03	0.79	0.06	0.03	0.98

Methodology
Controlled HAPs Emissions per oven (tons/yr) = Uncontrolled HAPs Emissions (tons/yr) x (1 - Oxidizer Efficiency %)