



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: June 13, 2007
RE: Essex Group, Inc. / 003-18362-00269
FROM: Nisha Sizemore
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, Room 1049, 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:

- (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 impracticable 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.



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PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

Essex Group, Inc. Fort Wayne Complex

Chemical Processing Plant
1700 West Swinney
Fort Wayne, Indiana 46802
and
Wire Coating Plant
1601 Wall Street
Fort Wayne, Indiana 46802

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

The Permittee shall 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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Operation Permit No.: T003-18362-00269	
Issued by:Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date:June 13, 2007 Expiration Date:June 13, 2012

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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 chemical processing and magnet wire coating operation.

Source Address:	Chemical Processing Plant: 1700 West Swinney, Fort Wayne, Indiana 46802 Magnet Wire Plant: 1601 Wall St. Fort Wayne, Indiana 46802
Mailing Address:	Chemical Processing Plant: 1700 West Swinney, Fort Wayne, Indiana 46802 Magnet Wire Plant: 1601 Wall St. Fort Wayne, Indiana 46802
Source Phone Number:	(260) 461-4000
SIC Code:	3357, 2851
County Location:	Allen
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules Major Source, under Emission Offset Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

Pursuant to T003-7654-00269, issued on September 30, 1999, this stationary chemical processing and magnet wire coating company consists of two (2) plants:

- (a) Chemical Processing Plant is located at 1700 West Swinney, Fort Wayne, Indiana 46802; and
- (b) Magnet Wire Coating Plant is located at 1601 Wall Street, Fort Wayne, Indiana 46802.

Since the Chemical Processing Plant supports the Magnet Wire Coating Plant, and these two plants are under common control of the same entity, they are considered one (1) source.

A.3 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.

Chemical Processing Plant

- (a) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit EB, constructed in 1994, and exhausting to stack SCB. This boiler is equipped with a burner to use No. 2 fuel oil in case of an emergency to prevent a total shutdown.
- (b) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit WB, constructed in 1994, and exhausting to stack SCB.

- (c) Two (2) 4000 gallon hot oil heated reactors with fume scrubbers, agitator condenser and distillation column identified as emission units R-1 and R-2, and constructed in 1973 and 1981, respectively.
- (d) Seven (7) jacketed mix kettles, all constructed after January 1, 1980 and identified as follows:
 - (1) Two (2) 2000 gallon jacketed mix kettles equipped with agitator and condenser, identified as emission units K-1 and K-2, and constructed prior to 1982.
 - (2) One (1) 1000 gallon jacketed mix kettle equipped with agitator and condenser, identified as K-3, and constructed prior to 1982.
 - (3) One (1) 4000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-4, replaced in 2001.
 - (4) One (1) 5000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-5, and constructed in 1990.
 - (5) Two (2) 10000 gallon jacketed kettles each equipped with an agitator and a condenser, identified as emission units K-6 and K-7, constructed in 1973 and 1981, respectively.

Magnet Wire Coating Plant

- (a) One (1) wire enameling oven with an integral internal thermal oxidizer, identified as emission unit 52, constructed in 1996, with a maximum capacity of 531 pounds of wire per hour, with emissions exhausting at stack S52.
- (b) The following ten (10) wire enameling ovens with add-on thermal incinerators for control. After production, a wire lube is applied to the enameled wire, with a combined maximum total usage of 0.4 pounds per hour for all ten (10) ovens.
 - (1) Five (5) wire enameling ovens, identified as emission units 53, 54, 55, 56 and 57, constructed in 1958, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the west incinerator identified as SWI.
 - (2) Three (3) wire enameling ovens, identified as emission units 58, 59 and 60, constructed in 1962, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.
 - (3) Two (2) wire enameling ovens, identified as emission units 61 and 62, constructed in 1978, with a maximum capacity of 156.49 pounds of aluminum wire per hour each or a maximum capacity of 398.75 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI. After production, a wire lube is applied to the enameled wire, with a maximum usage of 0.2 pounds per hour for each oven.
- (c) Two (2) wire enameling ovens with an integral internal thermal oxidizer, identified as emission units 65 and 66, constructed in 1997, with a maximum capacity of 891 pounds of copper/aluminum wire per hour each, with emissions exhausting at stacks S65 and S66, respectively.

- (d) Three (3) wire coating machines, identified as emission units 24, 25 and 26, constructed in 1996, with a maximum capacity of 272 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-1.
- (e) Three (3) wire coating machines, identified as emission units 35, 36 and 37, constructed in the 1980's, with a maximum capacity of 172.39 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-2.

A.4 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):

Chemical Processing Plant

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

Magnet Wire Coating Plant

- (a) Degreasing operation with a maximum usage of 2533 pounds per year of hydrocarbon. [326 IAC 8-3-2]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

A.5 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, T003-18362-00269, is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (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 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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

B.6 Severability [326 IAC 2-7-5(5)]

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

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

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

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue

Indianapolis, Indiana 46204-2251

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

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "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 or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 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.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

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

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

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Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The PMP and the PMP extension notification do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (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 contributes to any violation. The PMP does 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 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for the unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-7-16]

- (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
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 or emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in 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.

B.13 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)(7)]

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

- (a) All terms and conditions of permits issued established prior to T003-18362-00269 and pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this Part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(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:

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Permits Branch, Office of Air Quality
100 North Senate Avenue
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:

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Permits Branch, Office of Air Quality
100 North Senate Avenue
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Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

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

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:
Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
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 emissions trading 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), (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 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.

B.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2] [326 IAC 2-3-2]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2

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
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)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant 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 Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.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. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

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

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

C.6 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
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 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

Testing Requirements [326 IAC 2-7-6(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

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 source 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. 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
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 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter

should be implemented at intervals no less often than once an hour until such time as the continuous monitor is back in operation.

- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

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

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

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

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

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

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on February 27, 1998.
- (b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

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

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

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

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

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

- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) Initial inspection and evaluation;
 - (2) Recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) Any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) Monitoring results;
 - (2) Review of operation and maintenance procedures and records;
 - (3) Inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) Monitoring data;
 - (2) Monitor performance data, if applicable; and
 - (3) Corrective actions taken.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and 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 documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (a) Pursuant to 326 IAC 2-6(a)(1), the Permittee shall submit by July 1 of each year 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 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
Indianapolis, Indiana 46204-2251

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

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

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit or at a source with Plant-wide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (II)) at an existing emissions unit, document and maintain the following records:

- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and 326 IAC 2-3-1(mm)(2)(A)(3); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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

- (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
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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1(II)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

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

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

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

Chemical Processing Plant - Boilers

- (a) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit EB, constructed in 1994, and exhausting to stack SCB. This boiler is equipped with a burner to use No. 2 fuel oil in case of an emergency to prevent a total shutdown.
- (b) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit WB, constructed in 1994, and exhausting to stack SCB.

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

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

D.1.1 General Provisions Relating to NSPS and NESHAP [326 IAC 12-1] [326 IAC 20-1] [40 CFR 60, Subpart A] [40 CFR 63, Subpart A]

- (a) The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1-1, apply to boilers EB and WB except when otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to boilers EB and WB except when otherwise specified in 40 CFR Part 63, Subpart AAAA.

D.1.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 12] [40 CFR 60, Subpart Dc]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The SO₂ emissions from boiler EB shall not exceed five tenths (0.5) pounds per million Btu heat input when burning No. 2 fuel oil; or
- (b) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit and SO₂ emission limit apply at all times, including periods of startup, shutdown, and malfunction.

D.1.3 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating), particulate emissions from boilers EB and WB shall be limited to 0.437 pounds PM per MMBtu heat input each based on the following equation:

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

Where:

- Pt = pounds of particulate matter emitted per MMBtu heat input.
- Q = Total source maximum operating capacity rating in MMBtu per hour = 33.48 MMBtu/hr.

D.1.4 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.

Compliance Determination Requirements

D.1.5 Natural Gas

In order to demonstrate compliance with D.1.2 and D.1.3, the one (1) 16.74 MMBtu per hour natural gas fired boiler (WB) shall burn only natural gas.

D.1.6 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance with the fuel oil sulfur limit and SO₂ emission limit for boiler EB utilizing one of the following options:

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

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the boiler stack exhaust (SCB) shall be performed once per day during normal daylight operations when fuel oil is burned in boiler EB. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.1.8 Record Keeping Requirements [326 IAC 12] [40 CFR 60, Subpart Dc]

- (a) Pursuant to 40 CFR 60, Part Dc and to document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below for boiler EB. Note that pursuant to 40 CFR 60, Subpart Dc, the fuel oil sulfur limit and SO₂ emission limit applies at all times including periods of startup, shutdown and malfunction.

- (1) Calendar dates covered in the compliance determination period;
- (2) Daily records of actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) To certify compliance when burning natural gas only, the Permittee shall maintain monthly records of fuel used.

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

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

- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the boiler EB stack exhaust once per day when burning fuel oil.
- (c) Pursuant to 40 CFR 60.43c(b), Subpart Dc, the Permittee shall record and maintain monthly records of all fuels burned in each boiler.
- (d) Pursuant to 326 IAC 12, the Permittee shall record and maintain daily records of all fuels burned in each boiler. This requirement is not federally enforceable.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.9 Reporting Requirements

The natural gas boiler certification for boiler EB shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY OPERATION CONDITIONS

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

Magnet Wire Coating Plant

- (a) One (1) wire enameling oven with an integral internal thermal oxidizer, identified as emission unit 52, constructed in 1996, with a maximum capacity of 531 pounds of wire per hour, with emissions exhausting at stack S52.
- (b) The following ten (10) wire enameling ovens with add-on thermal incinerators for control. After production, a wire lube is applied to the enameled wire, with a combined maximum total usage of 0.4 pounds per hour for all ten (10) ovens.
 - (1) Five (5) wire enameling ovens, identified as emission units 53, 54, 55, 56 and 57, constructed in 1958, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the west incinerator identified as SWI.
 - (2) Three (3) wire enameling ovens, identified as emission units 58, 59 and 60, constructed in 1962, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.
 - (3) Two (2) wire enameling ovens, identified as emission units 61 and 62, constructed in 1978, with a maximum capacity of 156.49 pounds of aluminum wire per hour each or a maximum capacity of 398.75 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.
- (c) Two (2) wire enameling ovens with an integral internal thermal oxidizer, identified as emission units 65 and 66, constructed in 1997, with a maximum capacity of 891 pounds of copper/aluminum wire per hour each, with emissions exhausting at stacks S65 and S66, respectively.
- (d) Three (3) wire coating machines, identified as emission units 24, 25 and 26, constructed in 1996, with a maximum capacity of 272 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-1.
- (e) Three (3) wire coating machines, identified as emission units 35, 36 and 37, constructed in the 1980's, with a maximum capacity of 172.39 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-2.

(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 Volatile Organic Compound (VOC) Emission Limitations and PSD Minor Modification Limit [326 IAC 8-2-8] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 8-2-8, for the wire enameling ovens identified as 52, 65 and 66, 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, as delivered to the applicator.

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

This 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 equivalent pounds of VOC per gallon of coating solids (as applied) shall be limited to less than 2.21, when 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 T003-7654-00269, issued September 30, 1999, and 326 IAC 8-1-2(c), the equivalent overall control efficiency of the integral internal thermal oxidizers for magnet wire enameling oven 52 shall be not less than ninety-five and nineteen hundredths percent (95.19%) and the equivalent overall control efficiency of the integral internal thermal oxidizers for magnet wire enameling ovens 65 and 66 shall be not less than ninety-four and ten hundredths percent (94.10%) or the required destruction efficiency demonstrated by the most recent stack test, for the worst case VOC coating currently used; for a higher VOC content coating, the overall control efficiency of these units shall be no less than the estimated control efficiency required to achieve compliance with the VOC limit in Condition D.1.1(a).

The overall control efficiency (O) of the catalytic oxidizers shall be 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 control efficiency of the capture system and control device as a percentage.

- (e) The VOC emissions from wire coating machines 24, 25, and 26 shall be less than 15 pounds per day per oven. Compliance with this limit shall render the requirements of 326 IAC 8-2-8 not applicable to these facilities.

- (f) The VOC emissions from oven 52 shall be less than 31.25 tons per twelve consecutive month period and the internal thermal oxidizer for magnet wire enameling oven 52 shall achieve an overall efficiency of at least ninety-five and nineteen hundredths percent (95.19%). Compliance with this limit, and potential VOC emissions from ovens 24, 25, and 26, shall limit the VOC emissions from the modifications performed in 1996 to less than 40 tons per year and shall render the requirements of 326 IAC 2-2 not applicable to the modifications performed in 1996. VOC Emissions shall be determined by the following equation:

$$\text{VOC Emissions (tons)} = (\sum (\text{VOC Content } i \text{ (\%)} \times \text{Coating Amount } i \text{ (tons)} \times (1 - \text{Control Efficiency } \% / 100))$$

where:

Control Efficiency % = control efficiency as demonstrated in most recent valid compliance test.

VOC Content *i* = Percent VOC content of coating *i* used

Amount *i* = Usage, in tons of the coating *i*

- (g) The VOC emissions from ovens 65 and 66 shall be less than 40 tons per twelve consecutive month period and the internal thermal oxidizer for magnet wire enameling ovens 65 and 66 shall, in aggregate, achieve an overall efficiency of at least ninety-four and one tenths percent (94.1%). Compliance with this limit shall render the requirements of 326 IAC 2-2 not applicable to the modification performed in 1997. VOC Emissions shall be determined by the following equation:

$$\text{VOC Emissions (tons)} = (\sum (\text{VOC Content } i \text{ (\%)} \times \text{Coating Amount } i \text{ (tons)} \times (1 - \text{Control Efficiency } \% / 100))$$

where:

Control Efficiency % = control efficiency as demonstrated in most recent valid compliance test.

VOC Content *i* = Percent VOC content of coating *i* used

Amount *i* = Usage, in tons of the coating *i*

D.2.2 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 the wire enameling ovens identified as 24, 25, 26, 35, 36, 37, 52, 65 and 66 and any control devices.

Compliance Determination Requirements

D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Pursuant to 326 IAC 8-1-2(a), the Permittee shall operate the integral internal thermal oxidizers for the wire enameling ovens identified as 52, 65 and 66 at all times that these facilities are in operation in order to achieve compliance with Condition D.2.1.

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.2.1(b), (d), (f), and (g), within 180 days after issuance of this Part 70 permit, the Permittee shall conduct performance tests on the integral internal thermal oxidizers on the wire enameling ovens identified as 52, 65 and 66 to verify VOC control efficiency per Conditions D.2.1(b), (d), (f), and (g) for the integral internal thermal oxidizers using methods approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.
- (b) One representative thermal oxidizer from the three (3) thermal oxidizers controlling the wire enameling ovens identified as 52, 65 and 66 shall be tested. The thermal oxidizer

tested shall be the oxidizer in which the longest amount of time has elapsed since its previous test. This test shall be repeated at least once every five 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 test required in (a) above, the Permittee shall conduct a performance test to verify VOC control efficiency as per Condition D.2.1(b) and (c) for the integral internal thermal oxidizers using methods approved by the Commissioner.
- (d) For a higher VOC content coating than that used during the stack test in (a) 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.

D.2.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Condition D.2.1(a) and (e) 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.

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

D.2.6 Thermal Oxidizer Operation

For the wire enameling ovens identified as 52, 65 and 66:

- (a) From the date of issuance of the Part 70 permit until the approved stack test results are available, the Permittee shall operate the internal integral thermal oxidizers 3 hour average temperature at or above the temperature of 1380 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.2.1, as approved by IDEM.
- (c) From the date of the approved stack test results are available, the Permittee shall operate the internal integral thermal oxidizers at or above the 3 hour block average minimum temperature as observed during the compliant stack test.

D.2.7 Parametric Monitoring

For the wire enameling ovens identified as 52, 65 and 66:

- (a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizers for measuring operating temperature of the internal integral thermal oxidizers. 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 oxidizers are in operation.
- (b) If the primary continuous monitoring system is not in operation, the internal integral thermal 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 internal integral thermal oxidizer. Continuous monitoring shall mean no less often than once per fifteen (15) minutes.

- (c) The internal integral thermal 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 within 15 minutes to return oxidizer temperature to at least the required minimum temperature setpoint. Corrective action must return oxidizer temperature to or above the minimum temperature 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) Any action taken must be in accordance and consistent with Section C.15 - Response to Excursions and Exceedances and failure to take action consistent with Section C.15 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.2.8 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content limits and the VOC emission limits established in Condition D.2.1.
 - (1) The amount and VOC content of each coating material and solvent used less water.
 - (2) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (3) The weight of VOCs emitted for each compliance period.
- (b) To document compliance with Condition D.2.6 and D.2.7, the Permittee shall maintain the continuous temperature records and 3 hour average temperature records.
- (c) To document compliance with Condition D.2.4, the Permittee shall maintain records of the test results.
- (d) All records shall be maintained in accordance with Section C- General Record Keeping Requirements, of this permit.

D.2.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.1(f) and D.2.1(g) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

- D.2.10 General Provisions Relating to NESHAP Subpart M (National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products [326 IAC 20-1] [40 CFR Part 63, Subpart A])
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Pursuant to 40 CFR 63.3901, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 as specified in Table 2 of 40 CFR Part 63, Subpart M in accordance with schedule in 40 CFR 63 Subpart M

D.2.11 NESHAP Subpart M Requirements [40 CFR 63, Subpart M]

Pursuant to 40 CFR 63, Subpart M, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart M, for the entire affected source (consisting of all of the magnet wire coating ovens (52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 65, 66, 24, 25, 26, 35, 36, and 37), and associated solvent cleaning and coating mixing operations) beginning January 2, 2007, as follows:

§ 63.3880 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for miscellaneous metal parts and products surface coating facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations.

§ 63.3881(a)(4) and (b) Am I subject to this subpart?

(a) Miscellaneous metal parts and products include, but are not limited to, metal components of the following types of products as well as the products themselves: motor vehicle parts and accessories, bicycles and sporting goods, recreational vehicles, extruded aluminum structural components, railroad cars, heavy duty trucks, medical equipment, lawn and garden equipment, electronic equipment, magnet wire, steel drums, industrial machinery, metal pipes, and numerous other industrial, household, and consumer products. Except as provided in paragraph (c) of this section, the source category to which this subpart applies is the surface coating of any miscellaneous metal parts or products, as described in paragraph (a)(1) of this section, and it includes the subcategories listed in paragraphs (a)(2) through (6) of this section.

(4) The magnet wire coating subcategory includes surface coating operations that are performed using coatings that meet the definition of magnet wire coatings in §63.3981.

(b) You are subject to this subpart if you own or operate a new, reconstructed, or existing affected source, as defined in §63.3882, that uses 946 liters (250 gallons (gal)) per year, or more, of coatings that contain hazardous air pollutants (HAP) in the surface coating of miscellaneous metal parts and products defined in paragraph (a) of this section; and that is a major source, is located at a major source, or is part of a major source of emissions of HAP. A major source of HAP emissions is any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (Mg) (10 tons) or more per year or any combination of HAP at a rate of 22.68 Mg (25 tons) or more per year. You do not need to include coatings that meet the definition of non-HAP coating contained in §63.3981 in determining whether you use 946 liters (250 gal) per year, or more, of coatings in the surface coating of miscellaneous metal parts and products.

§ 63.3882 What parts of my plant does this subpart cover?

(a) This subpart applies to each new, reconstructed, and existing affected source within each of the four subcategories listed in §63.3881(a).

(b) The affected source is the collection of all of the items listed in paragraphs (b)(1) through (4) of this section that are used for surface coating of miscellaneous metal parts and products within each subcategory.

(1) All coating operations as defined in §63.3981;

(2) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed;

(3) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and

(4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.

(c) An affected source is a new affected source if you commenced its construction after August 13, 2002 and the construction is of a completely new miscellaneous metal parts and products surface coating facility where previously no miscellaneous metal parts and products surface coating facility had existed.

(d) An affected source is reconstructed if it meets the criteria as defined in §63.2.

(e) An affected source is existing if it is not new or reconstructed.

§ 63.3883(b) and (d) When do I have to comply with this subpart?

The date by which you must comply with this subpart is called the compliance date. The compliance date for each type of affected source is specified in paragraphs (a) through (c) of this section. The compliance date begins the initial compliance period during which you conduct the initial compliance demonstration described in §§63.3940, 63.3950, and 63.3960.

(b) For an existing affected source, the compliance date is the date 3 years after January 2, 2004.

(d) You must meet the notification requirements in §63.3910 according to the dates specified in that section and in subpart A of this part. Some of the notifications must be submitted before the compliance dates described in paragraphs (a) through (c) of this section.

§ 63.3890 What emission limits must I meet?

(b) For an existing affected source, you must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (b)(1) through (5) of this section, except as specified in paragraph (c) of this section, determined according to the requirements in §63.3941, §63.3951, or §63.3961.

(3) For each existing magnet wire coating affected source, limit organic HAP emissions to no more than 0.12 kg (1.0 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.

(c) If your facility's surface coating operations meet the applicability criteria of more than one of the subcategory emission limits specified in paragraphs (a) or (b) of this section, you may comply separately with each subcategory emission limit or comply using one of the alternatives in paragraph (c)(1) or (2) of this section.

(1) If the general use or magnet wire surface coating operations subject to only one of the emission limits specified in paragraphs (a)(1), (3), (b)(1), or (3) of this section account for 90 percent or more of the surface coating activity at your facility (*i.e.*, it is the predominant activity at your facility), then compliance with that one emission limitations in this subpart for all surface coating operations constitutes compliance with the other applicable emission limits. You must use liters (gal) of solids used as a measure of relative surface coating activity over a representative period of operation. You may estimate the relative volume of coating solids used from parameters other than coating consumption and volume solids content (*e.g.*, design specifications for the parts or products coated and the number of items produced). The determination of predominant activity must accurately reflect current and projected coating operations and must be verifiable through appropriate documentation. The use of parameters other than coating consumption and volume solids content must be approved by the Administrator. You may use data for any reasonable time period of at least 1 year in determining the relative amount of coating activity, as long as they represent the way the source will continue to operate in the future and are approved by the Administrator. You must determine the predominant activity at your facility and submit the results of that determination with the initial notification required by §63.3910(b). Additionally, you must determine the facility's predominant activity annually and include the determination in the next semi-annual compliance report required by §63.3920(a).

(2) You may calculate and comply with a facility-specific emission limit as described in paragraphs (c)(2)(i) through (iii) of this section. If you elect to comply using the facility-specific emission limit alternative, then compliance with the facility-specific emission limit and the emission limitations in this subpart for all surface coating operations constitutes compliance with this and other applicable surface coating NESHAP.

In calculating a facility-specific emission limit, you must include coating activities that meet the applicability criteria of the other subcategories and constitute more than 1 percent of total coating activities. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation.

(i) You are required to calculate the facility-specific emission limit for your facility when you submit the notification of compliance status required in §63.3910(c), and on a monthly basis afterward using the coating data for the relevant 12-month compliance period.

(ii) Use Equation 1 of this section to calculate the facility-specific emission limit for your surface coating operations for each 12-month compliance period.

$$\text{Facility Specific Emission Unit} = \frac{\sum_{i=1}^n (\text{Limit}_i)(\text{Solid}_i)}{\sum_{i=1}^n (\text{Solid}_i)}$$

Where:

Facility-specific emission limit = Facility-specific emission limit for each 12-month compliance period, kg (lb) organic HAP per kg (lb) coating solids used.

Limit_i = The new source or existing source emission limit applicable to coating operation, i, included in the facility-specific emission limit, converted to kg (lb) organic HAP per kg (lb) coating solids used, if the emission limit is not already in those units. All emission limits included in the facility-specific emission limit must be in the same units.

Solids_i = The liters (gal) of solids used in coating operation, i, in the 12-month compliance period that is subject to emission limit, i. You may estimate the volume of coating solids used from parameters other than coating consumption and volume solids content (e.g., design specifications for the parts or products coated and the number of items produced). The use of parameters other than coating consumption and volume solids content must be approved by the Administrator.

n = The number of different coating operations included in the facility-specific emission limit.

§ 63.3891(c) What are my options for meeting the emission limits?

You must include all coatings (as defined in §63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in §63.3890. To make this determination, you must use at least one of the three compliance options listed in paragraphs (a) through (c) of this section. You may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. You may use different compliance options for different coating operations, or at different times on the same coating operation. You may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, you may not use different compliance options at the same time on the same coating operation. If you switch between compliance options for any coating operation or group of coating operations, you must document this switch as required by §63.3930(c), and you must report it in the next semiannual compliance report required in §63.3920.

(c) *Emission rate with add-on controls option.* Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), and the emissions reductions achieved by emission capture systems and add-on controls, the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.3890, calculated as a rolling 12-month emission rate and determined on a monthly basis. If you use this compliance option, you must also demonstrate that all emission capture systems and add-on control devices for the coating operation(s) meet the operating limits required in §63.3892, except for solvent recovery systems for which you conduct

liquid-liquid material balances according to §63.3961(j), and that you meet the work practice standards required in §63.3893. You must meet all the requirements of §§63.3960 through 63.3968 to demonstrate compliance with the emission limits, operating limits, and work practice standards using this option.

§ 63.3892(b) and (c) What operating limits must I meet?

(b) For any controlled coating operation(s) on which you use the emission rate with add-on controls option, except those for which you use a solvent recovery system and conduct a liquid-liquid material balance according to §63.3961(j), you must meet the operating limits specified in Table 1 to this subpart. These operating limits apply to the emission capture and control systems on the coating operation(s) for which you use this option, and you must establish the operating limits during the performance test according to the requirements in §63.3967. You must meet the operating limits at all times after you establish them.

(c) If you use an add-on control device other than those listed in Table 1 to this subpart, or wish to monitor an alternative parameter and comply with a different operating limit, you must apply to the Administrator for approval of alternative monitoring under §63.8(f).

§ 63.3893(b) What work practice standards must I meet?

(b) If you use the emission rate with add-on controls option, you must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners and/or other additives, and cleaning materials used in, and waste materials generated by the controlled coating operation(s) for which you use this option; or you must meet an alternative standard as provided in paragraph (c) of this section. The plan must specify practices and procedures to ensure that, at a minimum, the elements specified in paragraphs (b)(1) through (5) of this section are implemented.

(1) All organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers.

(2) Spills of organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized.

(3) Organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.

(4) Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.

(5) Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.

(c) As provided in §63.6(g), we, the U.S. Environmental Protection Agency, may choose to grant you permission to use an alternative to the work practice standards in this section.

§ 63.3900(a)(2), (b) and (c) What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations in this subpart as specified in paragraphs (a)(1) and (2) of this section.

(2) Any coating operation(s) for which you use the emission rate with add-on controls option, as specified in §63.3891(c), must be in compliance with the emission limitations as specified in paragraphs (a)(2)(i) through (iii) of this section.

(i) The coating operation(s) must be in compliance with the applicable emission limit in §63.3890 at all times except during periods of startup, shutdown, and malfunction.

(ii) The coating operation(s) must be in compliance with the operating limits for emission capture systems and add-on control devices required by §63.3892 at all times except during periods of startup, shutdown, and malfunction, and except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.3961(j).

(iii) The coating operation(s) must be in compliance with the work practice standards in §63.3893 at all times.

(b) You must always operate and maintain your affected source, including all air pollution control and monitoring equipment you use for purposes of complying with this subpart, according to the provisions in §63.6(e)(1)(i).

(c) If your affected source uses an emission capture system and add-on control device, you must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3). The plan must address the startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The plan must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.

§ 63.3901 What parts of the General Provisions apply to me?

Table 2 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.3910 What notifications must I submit?

(a) *General.* You must submit the notifications in §§63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) that apply to you by the dates specified in those sections, except as provided in paragraphs (b) and (c) of this section.

(b) *Initial Notification.* You must submit the initial notification required by §63.9(b) for a new or reconstructed affected source no later than 120 days after initial startup or 120 days after January 2, 2004, whichever is later. For an existing affected source, you must submit the initial notification no later than 1 year after January 2, 2004. If you are using compliance with the Surface Coating of Automobiles and Light-Duty Trucks NESHAP (subpart IIII of this part) as provided for under §63.3881(d) to constitute compliance with this subpart for any or all of your metal parts coating operations, then you must include a statement to this effect in your initial notification, and no other notifications are required under this subpart in regard to those metal parts coating operations. If you are complying with another NESHAP that constitutes the predominant activity at your facility under §63.3881(e)(2) to constitute compliance with this subpart for your metal parts coating operations, then you must include a statement to this effect in your initial notification, and no other notifications are required under this subpart in regard to those metal parts coating operations.

(c) *Notification of compliance status.* You must submit the notification of compliance status required by §63.9(h) no later than 30 calendar days following the end of the initial compliance period described in §§63.3940, 63.3950, or 63.3960 that applies to your affected source. The notification of compliance status must contain the information specified in paragraphs (c)(1) through (11) of this section and in §63.9(h).

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of the report and beginning and ending dates of the reporting period. The reporting period is the initial compliance period described in §§63.3940, 63.3950, or 63.3960 that applies to your affected source.

(4) Identification of the compliance option or options specified in §63.3891 that you used on each coating operation in the affected source during the initial compliance period.

(5) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period.

(6) If you had a deviation, include the information in paragraphs (c)(6)(i) and (ii) of this section.

(i) A description and statement of the cause of the deviation.

(ii) If you failed to meet the applicable emission limit in §63.3890, include all the calculations you used to determine the kg (lb) of organic HAP emitted per liter (gal) coating solids used. You do not need to submit information provided by the materials' suppliers or manufacturers, or test reports.

(7) For each of the data items listed in paragraphs (c)(7)(i) through (iv) of this section that is required by the compliance option(s) you used to demonstrate compliance with the emission limit, include an example of how you determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing conducted according to §63.3941(a), (b), or (c). You do not need to submit copies of any test reports.

(i) Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material.

(ii) Volume fraction of coating solids for one coating.

(iii) Density for one coating, one thinner and/or other additive, and one leaning material, except that if you use the compliant material option, only the example coating density is required.

(iv) The amount of waste materials and the mass of organic HAP contained in the waste materials for which you are claiming an allowance in Equation 1 of §63.3951.

(8) The calculation of kg (lb) of organic HAP emitted per liter (gal) coating solids used for the compliance option(s) you used, as specified in paragraphs (c)(8)(i) through (iii) of this section.

(i) For the compliant material option, provide an example calculation of the organic HAP content for one coating, using Equation 2 of §63.3941.

(ii) For the emission rate without add-on controls option, provide the calculation of the total mass of organic HAP emissions for each month; the calculation of the total volume of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1C, 2, and 3, respectively, of §63.3951.

(iii) For the emission rate with add-on controls option, provide the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month, using Equations 1 and 1A through 1C of §63.3951; the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961 and Equations 2, 3, and 3A through 3C of §63.3961 as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.3961; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.3961.

(9) For the emission rate with add-on controls option, you must include the information specified in paragraphs (c)(9)(i) through (iv) of this section, except that the requirements in paragraphs (c)(9)(i) through (iii) of this section do not apply to solvent recovery systems for which you conduct liquid-liquid material balances according to §63.3961(j).

(i) For each emission capture system, a summary of the data and copies of the calculations supporting the determination that the emission capture system is a permanent total enclosure (PTE) or a measurement of the emission capture system efficiency. Include a description of the protocol followed for measuring capture efficiency, summaries of any capture efficiency tests conducted, and any calculations supporting the capture efficiency determination. If you use the data quality objective (DQO) or lower confidence limit (LCL) approach, you must also include the statistical calculations to show you meet the DQO or LCL criteria in appendix A to subpart KK of this part. You do not need to submit complete test reports.

(ii) A summary of the results of each add-on control device performance test. You do not need to submit complete test reports.

(iii) A list of each emission capture system's and add-on control device's operating limits and a summary of the data used to calculate those limits.

(iv) A statement of whether or not you developed and implemented the work practice plan required by §63.3893.

(10) If you are complying with a single emission limit representing the predominant activity under §63.3890(c)(1), include the calculations and supporting information used to demonstrate that this emission limit represents the predominant activity as specified in §63.3890(c)(1).

(11) If you are complying with a facility-specific emission limit under §63.3890(c)(2), include the calculation of the facility-specific emission limit and any supporting information as specified in §63.3890(c)(2).

§ 63.3920 What reports must I submit?

(a) *Semiannual compliance reports.* You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of this section. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in paragraph (a)(2) of this section.

(1) *Dates.* Unless the Administrator has approved or agreed to a different schedule for submission of reports under §63.10(a), you must prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) through (iv) of this section. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in §63.3940, §63.3950, or §63.3960 that applies to your affected source and ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period.

(ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(iii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(iv) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the date specified in paragraph (a)(1)(iii) of this section.

(2) *Inclusion with title V report.* Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

(3) *General requirements.* The semiannual compliance report must contain the information specified in paragraphs (a)(3)(i) through (vii) of this section, and the information specified in paragraphs (a)(4) through (7) and (c)(1) of this section that is applicable to your affected source.

(i) Company name and address.

(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(iv) Identification of the compliance option or options specified in §63.3891 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates for each option you used.

(v) If you used the emission rate without add-on controls or the emission rate with add-on controls compliance option (§63.3891(b) or (c)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.

(vi) If you used the predominant activity alternative (§63.3890(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report.

(vii) If you used the facility-specific emission limit alternative (§63.3890(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period.

(4) *No deviations.* If there were no deviations from the emission limitations in §§63.3890, 63.3892, and 63.3893 that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If you used the emission rate with add-on controls option and there were no periods during which the continuous parameter monitoring systems (CPMS) were out-of-control as specified in §63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.

(7) *Deviations: Emission rate with add-on controls option.* If you used the emission rate with add-on controls option and there was a deviation from an emission limitation (including any periods when emissions bypassed the add-on control device and were diverted to the atmosphere), the semiannual compliance report must contain the information in paragraphs (a)(7)(i) through (xiv) of this section. This includes periods of startup, shutdown, and malfunction during which deviations occurred.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.3890.

(ii) The calculations used to determine the 12-month organic HAP emission rate for each compliance period in which a deviation occurred. You must provide the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; the calculation of the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961, and Equations 2, 3, and 3A through 3C of §63.3961, as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.3961; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.3961. You do not need to submit the background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

(iii) The date and time that each malfunction started and stopped.

(iv) A brief description of the CPMS.

(v) The date of the latest CPMS certification or audit.

(vi) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.

(vii) The date, time, and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).

(viii) The date and time period of each deviation from an operating limit in Table 1 to this subpart; date and time period of any bypass of the add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(ix) A summary of the total duration of each deviation from an operating limit in Table 1 to this subpart and each bypass of the add-on control device during the semiannual reporting period, and the total duration as a percent of the total source operating time during that semiannual reporting period.

(x) A breakdown of the total duration of the deviations from the operating limits in Table 1 of this subpart and bypasses of the add-on control device during the semiannual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(xi) A summary of the total duration of CPMS downtime during the semiannual reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that semiannual reporting period.

(xii) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control device since the last semiannual reporting period.

(xiii) For each deviation from the work practice standards, a description of the deviation, the date and time period of the deviation, and the actions you took to correct the deviation.

(xiv) A statement of the cause of each deviation.

(b) *Performance test reports.* If you use the emission rate with add-on controls option, you must submit reports of performance test results for emission capture systems and add-on control devices no later than 60 days after completing the tests as specified in §63.10(d)(2).

(c) *Startup, shutdown, malfunction reports.* If you used the emission rate with add-on controls option and you had a startup, shutdown, or malfunction during the semiannual reporting period, you must submit the reports specified in paragraphs (c)(1) and (2) of this section.

(1) If your actions were consistent with your startup, shutdown, and malfunction plan, you must include the information specified in §63.10(d) in the semiannual compliance report required by paragraph (a) of this section.

(2) If your actions were not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report as described in paragraphs (c)(2)(i) and (ii) of this section.

(i) You must describe the actions taken during the event in a report delivered by facsimile, telephone, or other means to the Administrator within 2 working days after starting actions that are inconsistent with the plan.

(ii) You must submit a letter to the Administrator within 7 working days after the end of the event, unless you have made alternative arrangements with the Administrator as specified in §63.10(d)(5)(ii). The letter must contain the information specified in §63.10(d)(5)(ii).

§ 63.3930 What records must I keep?

You must collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

(a) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. If you are using the predominant activity alternative under §63.3890(c), you must keep records of the data and calculations used to determine the predominant activity. If you are using the facility-specific emission limit alternative under §63.3890(c), you must keep records of the data used to calculate the facility-specific emission limit for the initial compliance demonstration. You must also keep records of any data used in each annual predominant activity

determination and in the calculation of the facility-specific emission limit for each 12-month compliance period included in the semi-annual compliance reports.

(b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If you conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, you must keep a copy of the complete test report. If you use information provided to you by the manufacturer or supplier of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier. You are not required to obtain the test report or other supporting documentation from the manufacturer or supplier.

(c) For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.

(1) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used.

(4) For the emission rate with add-on controls option, records of the calculations specified in paragraphs (c)(4)(i) through (v) of this section.

(i) The calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.3951 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4);

(ii) The calculation of the total volume of coating solids used each month using Equation 2 of §63.3951;

(iii) The calculation of the mass of organic HAP emission reduction by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961 and Equations 2, 3, and 3A through 3C of §63.3961, as applicable;

(iv) The calculation of each month's organic HAP emission rate using Equation 4 of §63.3961; and

(v) The calculation of each 12-month organic HAP emission rate using Equation 5 of §63.3961.

(d) A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If you are using the compliant material option for all coatings at the source, you may maintain purchase records for each material used rather than a record of the volume used.

(e) A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight.

(f) A record of the volume fraction of coating solids for each coating used during each compliance period.

(g) If you use either the emission rate without add-on controls or the emission rate with add-on controls compliance option, the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period.

(h) If you use an allowance in Equation 1 of §63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.3951(e)(4), you must keep records of the information specified in paragraphs (h)(1) through (3) of this section.

(1) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of §63.3951; a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment.

(2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of §63.3951.

(3) The methodology used in accordance with §63.3951(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSD each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.

(i) [Reserved]

(j) You must keep records of the date, time, and duration of each deviation.

(k) If you use the emission rate with add-on controls option, you must keep the records specified in paragraphs (k)(1) through (8) of this section.

(1) For each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction.

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) The records required to show continuous compliance with each operating limit specified in Table 1 to this subpart that applies to you.

(6) The records specified in paragraphs (k)(6)(i) and (ii) of this section for each add-on control device organic HAP destruction or removal efficiency determination as specified in §63.3966.

(i) Records of each add-on control device performance test conducted according to §§63.3964 and 63.3966.

(ii) Records of the coating operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.

(7) Records of the data and calculations you used to establish the emission capture and add-on control device operating limits as specified in §63.3967 and to document compliance with the operating limits as specified in Table 1 to this subpart.

(8) A record of the work practice plan required by §63.3893 and documentation that you are implementing the plan on a continuous basis.

§ 63.3931 In what form and for how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You may keep the records off-site for the remaining 3 years.

Compliance Requirements for the Emission Rate With Add-On Control Options

§ 63.3960 By what date must I conduct performance tests and other initial compliance demonstrations?

(a) New and reconstructed *affected sources*. For a new or reconstructed affected source, you must meet the requirements of paragraphs (a)(1) through (4) of this section.

(1) All emission capture systems, add-on control devices, and CPMS must be installed and operating no later than the applicable compliance date specified in §63.3883. Except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.3961(j), you must conduct a performance test of each capture system and add-on control device according to §§63.3964, 63.3965, and

63.3966 and establish the operating limits required by §63.3892 no later than 180 days after the applicable compliance date specified in §63.3883. For a solvent recovery system for which you conduct liquid-liquid material balances according to §63.3961(j), you must initiate the first material balance no later than the applicable compliance date specified in §63.3883. For magnet wire coating operations you may, with approval, conduct a performance test of one representative magnet wire coating machine for each group of identical or very similar magnet wire coating machines.

(2) You must develop and begin implementing the work practice plan required by §63.3893 no later than the compliance date specified in §63.3883.

(3) You must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.3961. The initial compliance period begins on the applicable compliance date specified in §63.3883 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months. You must determine the mass of organic HAP emissions and volume of coatings solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the results of emission capture system and add-on control device performance tests conducted according to §§63.3964, 63.3965, and 63.3966; results of liquid-liquid material balances conducted according to §63.3961(j); calculations according to §63.3961 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.3890; the operating limits established during the performance tests and the results of the continuous parameter monitoring required by §63.3968; and documentation of whether you developed and implemented the work practice plan required by §63.3893.

(4) You do not need to comply with the operating limits for the emission capture system and add-on control device required by §63.3892 until after you have completed the performance tests specified in paragraph (a)(1) of this section. Instead, you must maintain a log detailing the operation and maintenance of the emission capture system, add-on control device, and continuous parameter monitors during the period between the compliance date and the performance test. You must begin complying with the operating limits for your affected source on the date you complete the performance tests specified in paragraph (a)(1) of this section. For magnet wire coating operations, you must begin complying with the operating limits for all identical or very similar magnet wire coating machines on the date you complete the performance test of a representative magnet wire coating machine. The requirements in this paragraph (a)(4) do not apply to solvent recovery systems for which you conduct liquid-liquid material balances according to the requirements in §63.3961(j).

(b) *Existing affected sources.* For an existing affected source, you must meet the requirements of paragraphs (b)(1) through (3) of this section.

(1) All emission capture systems, add-on control devices, and CPMS must be installed and operating no later than the applicable compliance date specified in §63.3883. Except for magnet wire coating operations and solvent recovery systems for which you conduct liquid-liquid material balances according to §63.3961(j), you must conduct a performance test of each capture system and add-on control device according to the procedures in §§63.3964, 63.3965, and 63.3966 and establish the operating limits required by §63.3892 no later than the compliance date specified in §63.3883. For magnet wire coating operations, you may, with approval, conduct a performance test of a single magnet wire coating machine that represents identical or very similar magnet wire coating machines. For a solvent recovery system for which you conduct liquid-liquid material balances according to §63.3961(j), you must initiate the first material balance no later than the compliance date specified in §63.3883.

(2) You must develop and begin implementing the work practice plan required by §63.3893 no later than the compliance date specified in §63.3883.

(3) You must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.3961. The initial compliance period begins on the applicable compliance date specified in §63.3883 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months. You must determine the mass of organic

HAP emissions and volume of coatings solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the results of emission capture system and add-on control device performance tests conducted according to §§63.3964, 63.3965, and 63.3966; results of liquid-liquid material balances conducted according to §63.3961(j); calculations according to §63.3961 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.3890; the operating limits established during the performance tests and the results of the continuous parameter monitoring required by §63.3968; and documentation of whether you developed and implemented the work practice plan required by §63.3893.

(c) You are not required to conduct an initial performance test to determine capture efficiency or destruction efficiency of a capture system or control device if you receive approval to use the results of a performance test that has been previously conducted on that capture system or control device. Any such previous tests must meet the conditions described in paragraphs (c)(1) through (3) of this section.

(1) The previous test must have been conducted using the methods and conditions specified in this subpart.

(2) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.

(3) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the required operating parameters.

§ 63.3961 How do I demonstrate initial compliance?

(a) You may use the emission rate with add-on controls option for any coating operation, for any group of coating operations in the affected source, or for all of the coating operations in the affected source. You may include both controlled and uncontrolled coating operations in a group for which you use this option. You must use either the compliant material option or the emission rate without add-on controls option for any coating operation in the affected source for which you do not use the emission rate with add-on controls option. To demonstrate initial compliance, the coating operation(s) for which you use the emission rate with add-on controls option must meet the applicable emission limitations in §§63.3890, 63.3892, and 63.3893. You must conduct a separate initial compliance demonstration for each general use, magnet wire, rubber-to-metal, and extreme performance fluoropolymer coating operation, unless you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.3890(c). If you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), you must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. You must meet all the requirements of this section. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which you use the compliant material option or the emission rate without add-on controls option. You do not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed onsite (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coatings operation(s) for which you use the emission rate with add-on controls option. If you use coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.

(b) *Compliance with operating limits.* Except as provided in §63.3960(a)(4), and except for solvent recovery systems for which you conduct liquid-liquid material balances according to the requirements of paragraph (j) of this section, you must establish and demonstrate continuous compliance during the initial compliance period with the operating limits required by §63.3892, using the procedures specified in §§63.3967 and 63.3968.

(c) *Compliance with work practice requirements.* You must develop, implement, and document your implementation of the work practice plan required by §63.3893 during the initial compliance period, as specified in §63.3930.

(d) *Compliance with emission limits.* You must follow the procedures in paragraphs (e) through (n) of this section to demonstrate compliance with the applicable emission limit in §63.3890 for each affected source in each subcategory.

(e) *Determine the mass fraction of organic HAP, density, volume used, and volume fraction of coating solids.* Follow the procedures specified in §63.3951(a) through (d) to determine the mass fraction of organic HAP, density, and volume of each coating, thinner and/or other additive, and cleaning material used during each month; and the volume fraction of coating solids for each coating used during each month.

(f) *Calculate the total mass of organic HAP emissions before add-on controls.* Using Equation 1 of §63.3951, calculate the total mass of organic HAP emissions before add-on controls from all coatings, thinners and/or other additives, and cleaning materials used during each month in the coating operation or group of coating operations for which you use the emission rate with add-on controls option.

(g) *Calculate the organic HAP emission reduction for each controlled coating operation.* Determine the mass of organic HAP emissions reduced for each controlled coating operation during each month. The emission reduction determination quantifies the total organic HAP emissions that pass through the emission capture system and are destroyed or removed by the add-on control device. Use the procedures in paragraph (h) of this section to calculate the mass of organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balances. For each controlled coating operation using a solvent recovery system for which you conduct a liquid-liquid material balance, use the procedures in paragraph (j) of this section to calculate the organic HAP emission reduction.

(h) *Calculate the organic HAP emission reduction for each controlled coating operation not using liquid-liquid material balance.* Use Equation 1 of this section to calculate the organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balances. The calculation applies the emission capture system efficiency and add-on control device efficiency to the mass of organic HAP contained in the coatings, thinners and/or other additives, and cleaning materials that are used in the coating operation served by the emission capture system and add-on control device during each month. You must assume zero efficiency for the emission capture system and add-on control device for any period of time a deviation specified in §63.3963(c) or (d) occurs in the controlled coating operation, including a deviation during a period of startup, shutdown, or malfunction, unless you have other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Administrator. Equation 1 of this section treats the materials used during such a deviation as if they were used on an uncontrolled coating operation for the time period of the deviation.

$$H_C = (A_C + B_C + C_C - R_W - H_{VMC}) \left(\frac{CE}{100} \times \frac{DRE}{100} \right) \quad (Eq. 1)$$

Where:

H_C = Mass of organic HAP emission reduction for the controlled coating operation during the month, kg.

A_C = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg, as calculated in Equation 1A of this section.

B_C = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, kg, as calculated in Equation 1B of this section.

C_C = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg, as calculated in Equation 1C of this section.

R_W = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the compliance period, kg, determined according to §63.3951(e)(4). (You may assign a value of zero to R_W if you do not wish to use this allowance.)

H_{UNC} = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in §63.3963(c) and (d) that occurred during the month in the controlled coating operation, kg, as calculated in Equation 1D of this section.

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent. Use the test methods and procedures specified in §§63.3964 and 63.3965 to measure and record capture efficiency.

DRE = Organic HAP destruction or removal efficiency of the add-on control device, percent. Use the test methods and procedures in §§63.3964 and 63.3966 to measure and record the organic HAP destruction or removal efficiency.

(1) Calculate the mass of organic HAP in the coatings used in the controlled coating operation, kg (lb), using Equation 1A of this section:

$$A_C = \sum_{i=1}^m (Vol_{c,i}) (D_{c,i}) (W_{c,i}) \quad (Eq. 1A)$$

Where:

A_C = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg.

$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, kg per liter.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg per kg. For reactive adhesives as defined in §63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of this part.

m = Number of different coatings used.

(2) Calculate the mass of organic HAP in the thinners and/or other additives used in the controlled coating operation, kg (lb), using Equation 1B of this section:

$$B_C = \sum_{j=1}^n (Vol_{t,j}) (D_{t,j}) (W_{t,j}) \quad (Eq. 1B)$$

Where:

B_C = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, kg.

$Vol_{t,j}$ = Total volume of thinner and/or other additive, j, used during the month, liters.

$D_{t,j}$ = Density of thinner and/or other additive, j, kg per liter.

$W_{t,j}$ = Mass fraction of organic HAP in thinner and/or other additive, j, kg per kg. For reactive adhesives as defined in §63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of this part.

n = Number of different thinners and/or other additives used.

(3) Calculate the mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg (lb), using Equation 1C of this section:

$$C_C = \sum_{k=1}^p (Vol_{s,k})(D_{s,k})(W_{s,k}) \quad (Eq. 1C)$$

Where:

C_C = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg.

$Vol_{s,k}$ = Total volume of cleaning material, k, used during the month, liters.

$D_{s,k}$ = Density of cleaning material, k, kg per liter.

$W_{s,k}$ = Mass fraction of organic HAP in cleaning material, k, kg per kg.

p = Number of different cleaning materials used.

(4) Calculate the mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used in the controlled coating operation during deviations specified in §63.3963(c) and (d), using Equation 1D of this section:

$$H_{UNC} = \sum_{k=1}^q (Vol_k)(D_k)(W_k) \quad (Eq. 1D)$$

Where:

H_{UNC} = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in §63.3963(c) and (d) that occurred during the month in the controlled coating operation, kg.

Vol_h = Total volume of coating, thinner and/or other additive, or cleaning material, h, used in the controlled coating operation during deviations, liters.

D_h = Density of coating, thinner and/or other additives, or cleaning material, h, kg per liter.

W_h = Mass fraction of organic HAP in coating, thinner and/or other additives, or cleaning material, h, kg organic HAP per kg coating. For reactive adhesives as defined in §63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of this part.

q = Number of different coatings, thinners and/or other additives, and cleaning materials used.

(i) [Reserved]

§ 63.3963 How do I demonstrate continuous compliance with the emission limitations?

(a) To demonstrate continuous compliance with the applicable emission limit in §63.3890, the organic HAP emission rate for each compliance period, determined according to the procedures in §63.3961, must be equal to or less than the applicable emission limit in §63.3890. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.3960 is the end of a compliance period consisting of that month and the preceding 11 months. You must perform the calculations in §63.3961 on a monthly basis using data from the previous 12 months of operation. If you are complying with a facility-specific emission limit under §63.3890(c), you must also perform the calculation using Equation 1 in §63.3890(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.3890, this is a deviation from the emission limitation for that compliance period that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7).

(c) You must demonstrate continuous compliance with each operating limit required by §63.3892 that applies to you, as specified in Table 1 to this subpart, when the coating line is in operation.

- (1) If an operating parameter is out of the allowed range specified in Table 1 to this subpart, this is a deviation from the operating limit that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7).
- (2) If an operating parameter deviates from the operating limit specified in Table 1 to this subpart, then you must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation, unless you have other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Administrator.
- (d) You must meet the requirements for bypass lines in §63.3968(b) for controlled coating operations for which you do not conduct liquid-liquid material balances. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7). For the purposes of completing the compliance calculations specified in §§63.3961(h), you must treat the materials used during a deviation on a controlled coating operation as if they were used on an uncontrolled coating operation for the time period of the deviation as indicated in Equation 1 of §63.3961.
- (e) You must demonstrate continuous compliance with the work practice standards in §63.3893. If you did not develop a work practice plan, or you did not implement the plan, or you did not keep the records required by §63.3930(k)(8), this is a deviation from the work practice standards that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7).
- (f) As part of each semiannual compliance report required in §63.3920, you must identify the coating operation(s) for which you used the emission rate with add-on controls option. If there were no deviations from the emission limitations, submit a statement that you were in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.3890, and you achieved the operating limits required by §63.3892 and the work practice standards required by §63.3893 during each compliance period.
- (g) [Reserved]
- (h) [Reserved]
- (i) [Reserved]
- (j) You must maintain records as specified in §§63.3930 and 63.3931.
- (k) *Calculate the total volume of coating solids used.* Determine the total volume of coating solids used, liters, which is the combined volume of coating solids for all the coatings used during each month in the coating operation or group of coating operations for which you use the emission rate with add-on controls option, using Equation 2 of §63.3951.
- (l) *Calculate the mass of organic HAP emissions for each month.* Determine the mass of organic HAP emissions, kg, during each month, using Equation 4 of this section:

$$H_{HAP} = H_e - \sum_{i=1}^q (H_{c,i}) - \sum_{j=1}^r (H_{CSR,j}) \quad (Eq. 4)$$

where:

H_{HAP} = Total mass of organic HAP emissions for the month, kg.

H_e = Total mass of organic HAP emissions before add-on controls from all the coatings, thinners and/or other additives, and cleaning materials used during the month, kg, determined according to paragraph (f) of this section.

$H_{C,i}$ = Total mass of organic HAP emission reduction for controlled coating operation, i , not using a liquid-liquid material balance, during the month, kg, from Equation 1 of this section.

$H_{CSR,j}$ = Total mass of organic HAP emission reduction for coating operation, j , controlled by a solvent recovery system using a liquid-liquid material balance, during the month, g , from Equation 3 of this section.

q = Number of controlled coating operations not controlled by a solvent recovery system using a liquid-liquid material balance.

r = Number of coating operations controlled by a solvent recovery system using a liquid-liquid material balance.

(m) *Calculate the organic HAP emission rate for the compliance period.* Determine the organic HAP emission rate for the compliance period, kg (lb) of organic HAP emitted per liter (gal) coating solids used, using Equation 5 of this section:

$$H_{\text{annual}} = \frac{\sum_{y=1}^n H_{\text{HAP},y}}{\sum_{y=1}^n V_{\text{st},y}} \quad (\text{Eq. 5})$$

Where:

H_{annual} = Organic HAP emission rate for the compliance period, kg organic HAP emitted per liter coating solids used.

$H_{\text{HAP},y}$ = Organic HAP emissions for month, y , kg, determined according to Equation 4 of this section.

$V_{\text{st},y}$ = Total volume of coating solids used during month, y , liters, from Equation 2 of §63.3951.

y = Identifier for months.

n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

(n) *Compliance demonstration.* The organic HAP emission rate for the initial compliance period, calculated using Equation 5 of this section, must be less than or equal to the applicable emission limit for each subcategory in §63.3890 or the predominant activity or facility-specific emission limit allowed in §63.3890(c). You must keep all records as required by §§63.3930 and 63.3931. As part of the notification of compliance status required by §63.3910, you must identify the coating operation(s) for which you used the emission rate with add-on controls option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in §63.3890, and you achieved the operating limits required by §63.3892 and the work practice standards required by §63.3893.

§ 63.3964 What are the general requirements for performance tests?

(a) You must conduct each performance test required by §63.3960 according to the requirements in §63.7(e)(1) and under the conditions in this section, unless you obtain a waiver of the performance test according to the provisions in §63.7(h).

(1) *Representative coating operation operating conditions.* You must conduct the performance test under representative operating conditions for the coating operation. Operations during periods of startup, shutdown, or malfunction and during periods of nonoperation do not constitute representative conditions. You must record the process information that is necessary to document operating conditions during the test and explain why the conditions represent normal operation.

(2) *Representative emission capture system and add-on control device operating conditions.* You must conduct the performance test when the emission capture system and add-on control device are operating at a representative flow rate, and the add-on control device is operating at a representative inlet

concentration. You must record information that is necessary to document emission capture system and add-on control device operating conditions during the test and explain why the conditions represent normal operation.

(b) You must conduct each performance test of an emission capture system according to the requirements in §63.3965. You must conduct each performance test of an add-on control device according to the requirements in §63.3966.

§ 63.3965 How do I determine the emission capture system efficiency?

You must use the procedures and test methods in this section to determine capture efficiency as part of the performance test required by §63.3960.

(a) *Assuming 100 percent capture efficiency.* You may assume the capture system efficiency is 100 percent if both of the conditions in paragraphs (a)(1) and (2) of this section are met:

(1) The capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and directs all the exhaust gases from the enclosure to an add-on control device.

(2) All coatings, thinners and/or other additives, and cleaning materials used in the coating operation are applied within the capture system; coating solvent flash-off, curing, and drying occurs within the capture system; and the removal or evaporation of cleaning materials from the surfaces they are applied to occurs within the capture system. For example, this criterion is not met if parts enter the open shop environment when being moved between a spray booth and a curing oven.

(b) *Measuring capture efficiency.* If the capture system does not meet both of the criteria in paragraphs (a)(1) and (2) of this section, then you must use one of the three protocols described in paragraphs (c), (d), and (e) of this section to measure capture efficiency. The capture efficiency measurements use TVH capture efficiency as a surrogate for organic HAP capture efficiency. For the protocols in paragraphs (c) and (d) of this section, the capture efficiency measurement must consist of three test runs. Each test run must be at least 3 hours duration or the length of a production run, whichever is longer, up to 8 hours. For the purposes of this test, a production run means the time required for a single part to go from the beginning to the end of the production, which includes surface preparation activities and drying and curing time.

(c) *Liquid-to-uncaptured-gas protocol using a temporary total enclosure or building enclosure.* The liquid-to-uncaptured-gas protocol compares the mass of liquid TVH in materials used in the coating operation to the mass of TVH emissions not captured by the emission capture system. Use a temporary total enclosure or a building enclosure and the procedures in paragraphs (c)(1) through (6) of this section to measure emission capture system efficiency using the liquid-to-uncaptured-gas protocol.

(1) Either use a building enclosure or construct an enclosure around the coating operation where coatings, thinners and/or other additives, and cleaning materials are applied, and all areas where emissions from these applied coatings and materials subsequently occur, such as flash-off, curing, and drying areas. The areas of the coating operation where capture devices collect emissions for routing to an add-on control device, such as the entrance and exit areas of an oven or spray booth, must also be inside the enclosure. The enclosure must meet the applicable definition of a temporary total enclosure or building enclosure in Method 204 of appendix M to 40 CFR part 51.

(2) Use Method 204A or 204F of appendix M to 40 CFR part 51 to determine the mass fraction of TVH liquid input from each coating, thinner and/or other additive, and cleaning material used in the coating operation during each capture efficiency test run. To make the determination, substitute TVH for each occurrence of the term VOC in the methods.

(3) Use Equation 1 of this section to calculate the total mass of TVH liquid input from all the coatings, thinners and/or other additives, and cleaning materials used in the coating operation during each capture efficiency test run:

$$TVH_{used} = \sum_{i=1}^n (TVH_i)(Vol_i)(D_i) \quad (Eq. 1)$$

Where:

TVH_{used} = Mass of liquid TVH in materials used in the coating operation during the capture efficiency test run, kg.

TVH_i = Mass fraction of TVH in coating, thinner and/or other additive, or cleaning material, i, that is used in the coating operation during the capture efficiency test run, kg TVH per kg material.

Vol_i = Total volume of coating, thinner and/or other additive, or cleaning material, i, used in the coating operation during the capture efficiency test run, liters.

D_i = Density of coating, thinner and/or other additive, or cleaning material, i, kg material per liter material.

n = Number of different coatings, thinners and/or other additives, and cleaning materials used in the coating operation during the capture efficiency test run.

(4) Use Method 204D or 204E of appendix M to 40 CFR part 51 to measure the total mass, kg, of TVH emissions that are not captured by the emission capture system. They are measured as they exit the temporary total enclosure or building enclosure during each capture efficiency test run. To make the measurement, substitute TVH for each occurrence of the term VOC in the methods.

(i) Use Method 204D of appendix M to 40 CFR part 51 if the enclosure is a temporary total enclosure.

(ii) Use Method 204E of appendix M to 40 CFR 51 if the enclosure is a building enclosure. During the capture efficiency measurement, all organic compound emitting operations inside the building enclosure, other than the coating operation for which capture efficiency is being determined, must be shut down, but all fans and blowers must be operating normally.

(5) For each capture efficiency test run, determine the percent capture efficiency of the emission capture system using Equation 2 of this section:

$$CE = \frac{(TVH_{used} - TVH_{uncaptured})}{TVH_{used}} \times 100 \quad (Eq. 2)$$

Where:

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent.

TVH_{used} = Total mass of TVH liquid input used in the coating operation during the capture efficiency test run, kg.

$TVH_{uncaptured}$ = Total mass of TVH that is not captured by the emission capture system and that exits from the temporary total enclosure or building enclosure during the capture efficiency test run, kg.

(6) Determine the capture efficiency of the emission capture system as the average of the capture efficiencies measured in the three test runs.

(d) *Gas-to-gas protocol using a temporary total enclosure or a building enclosure.* The gas-to-gas protocol compares the mass of TVH emissions captured by the emission capture system to the mass of TVH emissions not captured. Use a temporary total enclosure or a building enclosure and the procedures in paragraphs (d)(1) through (5) of this section to measure emission capture system efficiency using the gas-to-gas protocol.

(1) Either use a building enclosure or construct an enclosure around the coating operation where coatings, thinners and/or other additives, and cleaning materials are applied, and all areas where emissions from these applied coatings and materials subsequently occur, such as flash-off, curing, and drying areas. The areas of the coating operation where capture devices collect emissions generated by the coating operation

for routing to an add-on control device, such as the entrance and exit areas of an oven or a spray booth, must also be inside the enclosure. The enclosure must meet the applicable definition of a temporary total enclosure or building enclosure in Method 204 of appendix M to 40 CFR part 51.

(2) Use Method 204B or 204C of appendix M to 40 CFR part 51 to measure the total mass, kg, of TVH emissions captured by the emission capture system during each capture efficiency test run as measured at the inlet to the add-on control device. To make the measurement, substitute TVH for each occurrence of the term VOC in the methods.

(i) The sampling points for the Method 204B or 204C measurement must be upstream from the add-on control device and must represent total emissions routed from the capture system and entering the add-on control device.

(ii) If multiple emission streams from the capture system enter the add-on control device without a single common duct, then the emissions entering the add-on control device must be simultaneously measured in each duct and the total emissions entering the add-on control device must be determined.

(3) Use Method 204D or 204E of appendix M to 40 CFR part 51 to measure the total mass, kg, of TVH emissions that are not captured by the emission capture system; they are measured as they exit the temporary total enclosure or building enclosure during each capture efficiency test run. To make the measurement, substitute TVH for each occurrence of the term VOC in the methods.

(i) Use Method 204D of appendix M to 40 CFR part 51 if the enclosure is a temporary total enclosure.

(ii) Use Method 204E of appendix M to 40 CFR part 51 if the enclosure is a building enclosure. During the capture efficiency measurement, all organic compound emitting operations inside the building enclosure, other than the coating operation for which capture efficiency is being determined, must be shut down, but all fans and blowers must be operating normally.

(4) For each capture efficiency test run, determine the percent capture efficiency of the emission capture system using Equation 3 of this section:

$$CE = \frac{TVH_{\text{captured}}}{(TVH_{\text{captured}} + TVH_{\text{uncaptured}})} \times 100 \quad (\text{Eq. 3})$$

Where:

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent.

TVH_{captured} = Total mass of TVH captured by the emission capture system as measured at the inlet to the add-on control device during the emission capture efficiency test run, kg.

$TVH_{\text{uncaptured}}$ = Total mass of TVH that is not captured by the emission capture system and that exits from the temporary total enclosure or building enclosure during the capture efficiency test run, kg.

(5) Determine the capture efficiency of the emission capture system as the average of the capture efficiencies measured in the three test runs.

(e) *Alternative capture efficiency protocol.* As an alternative to the procedures specified in paragraphs (c) and (d) of this section and subject to the approval of the Administrator, you may determine capture efficiency using any other capture efficiency protocol and test methods that satisfy the criteria of either the DQO or LCL approach as described in appendix A to subpart KK of this part.

§ 63.3966 How do I determine the add-on control device emission destruction or removal efficiency?

You must use the procedures and test methods in this section to determine the add-on control device emission destruction or removal efficiency as part of the performance test required by §63.3960. You must conduct three test runs as specified in §63.7(e)(3) and each test run must last at least 1 hour. If the source

is a magnet wire coating machine, you may use the procedures in section 3.0 of appendix A to this subpart as an alternative.

(a) For all types of add-on control devices, use the test methods specified in paragraphs (a)(1) through (5) of this section.

(1) Use Method 1 or 1A of appendix A to 40 CFR part 60, as appropriate, to select sampling sites and velocity traverse points.

(2) Use Method 2, 2A, 2C, 2D, 2F, or 2G of appendix A to 40 CFR part 60, as appropriate, to measure gas volumetric flow rate.

(3) Use Method 3, 3A, or 3B of appendix A to 40 CFR part 60, as appropriate, for gas analysis to determine dry molecular weight.

(4) Use Method 4 of appendix A to 40 CFR part 60, to determine stack gas moisture.

(5) Methods for determining gas volumetric flow rate, dry molecular weight, and stack gas moisture must be performed, as applicable, during each test run.

(b) Measure total gaseous organic mass emissions as carbon at the inlet and outlet of the add-on control device simultaneously, using either Method 25 or 25A of appendix A to 40 CFR part 60.

(1) Use Method 25 if the add-on control device is an oxidizer and you expect the total gaseous organic concentration as carbon to be more than 50 parts per million (ppm) at the control device outlet.

(2) Use Method 25A if the add-on control device is an oxidizer and you expect the total gaseous organic concentration as carbon to be 50 ppm or less at the control device outlet.

(3) Use Method 25A if the add-on control device is not an oxidizer.

(c) If two or more add-on control devices are used for the same emission stream, then you must measure emissions at the outlet to the atmosphere of each device. For example, if one add-on control device is a concentrator with an outlet to the atmosphere for the high-volume dilute stream that has been treated by the concentrator, and a second add-on control device is an oxidizer with an outlet to the atmosphere for the low-volume concentrated stream that is treated with the oxidizer, you must measure emissions at the outlet of the oxidizer and the high volume dilute stream outlet of the concentrator.

(d) For each test run, determine the total gaseous organic emissions mass flow rates for the inlet and the outlet of the add-on control device, using Equation 1 of this section. If there is more than one inlet or outlet to the add-on control device, you must calculate the total gaseous organic mass flow rate using Equation 1 of this section for each inlet and each outlet and then total all of the inlet emissions and total all of the outlet emissions:

$$M_f = Q_{sd} C_c (12) (0.0416) (10^{-6}) \quad (Eq. 1)$$

Where:

M_f = Total gaseous organic emissions mass flow rate, kg per hour (h).

C_c = Concentration of organic compounds as carbon in the vent gas, as determined by Method 25 or Method 25A, parts per million by volume (ppmv), dry basis.

Q_{sd} = Volumetric flow rate of gases entering or exiting the add-on control device, as determined by Method 2, 2A, 2C, 2D, 2F, or 2G, dry standard cubic meters/hour (dscm/h).

0.0416 = Conversion factor for molar volume, kg-moles per cubic meter (mol/m^3) (@ 293 Kelvin (K) and 760 millimeters of mercury (mmHg)).

(e) For each test run, determine the add-on control device organic emissions destruction or removal efficiency, using Equation 2 of this section:

$$DRE = \frac{M_{fi} - M_{fo}}{M_{fi}} \times 100 \quad (\text{Eq. 2})$$

Where:

DRE = Organic emissions destruction or removal efficiency of the add-on control device, percent.

M_{fi} = Total gaseous organic emissions mass flow rate at the inlet(s) to the add-on control device, using Equation 1 of this section, kg/h.

M_{fo} = Total gaseous organic emissions mass flow rate at the outlet(s) of the add-on control device, using Equation 1 of this section, kg/h.

(f) Determine the emission destruction or removal efficiency of the add-on control device as the average of the efficiencies determined in the three test runs and calculated in Equation 2 of this section.

§ 63.3967 How do I establish the emission capture system and add-on control device operating limits during the performance test?

During the performance test required by §63.3960 and described in §§63.3964, 63.3965, and 63.3966, you must establish the operating limits required by §63.3892 according to this section, unless you have received approval for alternative monitoring and operating limits under §63.8(f) as specified in §63.3892.

(a) *Thermal oxidizers.* If your add-on control device is a thermal oxidizer, establish the operating limits according to paragraphs (a)(1) and (2) of this section.

(1) During the performance test, you must monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. You must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs.

(2) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. This average combustion temperature is the minimum operating limit for your thermal oxidizer.

(b) *Catalytic oxidizers.* If your add-on control device is a catalytic oxidizer, establish the operating limits according to either paragraphs (b)(1) and (2) or paragraphs (b)(3) and (4) of this section. If the source is a magnet wire coating machine, you may use the procedures in section 3.0 of appendix A to this subpart as an alternative.

(1) During the performance test, you must monitor and record the temperature just before the catalyst bed and the temperature difference across the catalyst bed at least once every 15 minutes during each of the three test runs.

(2) Use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed and the average temperature difference across the catalyst bed maintained during the performance test. These are the minimum operating limits for your catalytic oxidizer.

(3) You must monitor the temperature at the inlet to the catalyst bed and implement a site-specific inspection and maintenance plan for your catalytic oxidizer as specified in paragraph (b)(4) of this section. During the performance test, you must monitor and record the temperature just before the catalyst bed at least once every 15 minutes during each of the three test runs. Use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed during the performance test. This is the minimum operating limit for your catalytic oxidizer.

(4) You must develop and implement an inspection and maintenance plan for your catalytic oxidizer(s) for which you elect to monitor according to paragraph (b)(3) of this section. The plan must address, at a minimum, the elements specified in paragraphs (b)(4)(i) through (iii) of this section.

(i) Annual sampling and analysis of the catalyst activity (*i.e.*, conversion efficiency) following the manufacturer's or catalyst supplier's recommended procedures. If problems are found during the catalyst

activity test, you must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations.

(ii) Monthly external inspection of the catalytic oxidizer system, including the burner assembly and fuel supply lines for problems and, as necessary, adjust the equipment to assure proper air-to-fuel mixtures.

(iii) Annual internal inspection of the catalyst bed to check for channeling, abrasion, and settling. If problems are found during the annual internal inspection of the catalyst, you must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations. If the catalyst bed is replaced and is not of like or better kind and quality as the old catalyst then you must conduct a new performance test to determine destruction efficiency according to §63.3966. If a catalyst bed is replaced and the replacement catalyst is of like or better kind and quality as the old catalyst, then a new performance test to determine destruction efficiency is not required and you may continue to use the previously established operating limits for that catalytic oxidizer.

(f) *Emission capture systems.* For each capture device that is not part of a PTE that meets the criteria of §63.3965(a), establish an operating limit for either the gas volumetric flow rate or duct static pressure, as specified in paragraphs (f)(1) and (2) of this section. The operating limit for a PTE is specified in Table 1 to this subpart. If the source is a magnet wire coating machine, you may use the procedures in section 2.0 of appendix A to this subpart as an alternative.

(1) During the capture efficiency determination required by §63.3960 and described in §§63.3964 and 63.3965, you must monitor and record either the gas volumetric flow rate or the duct static pressure for each separate capture device in your emission capture system at least once every 15 minutes during each of the three test runs at a point in the duct between the capture device and the add-on control device inlet.

(2) Calculate and record the average gas volumetric flow rate or duct static pressure for the three test runs for each capture device. This average gas volumetric flow rate or duct static pressure is the minimum operating limit for that specific capture device.

§ 63.3968 What are the requirements for continuous parameter monitoring system installation, operation, and maintenance?

(a) *General.* You must install, operate, and maintain each CPMS specified in paragraphs (c), (e), (f), and (g) of this section according to paragraphs (a)(1) through (6) of this section. You must install, operate, and maintain each CPMS specified in paragraphs (b) and (d) of this section according to paragraphs (a)(3) through (5) of this section.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four equally spaced successive cycles of CPMS operation in 1 hour.

(2) You must determine the average of all recorded readings for each successive 3 hour period of the emission capture system and add-on control device operation.

(3) You must record the results of each inspection, calibration, and validation check of the CPMS.

(4) You must maintain the CPMS at all times and have available necessary parts for routine repairs of the monitoring equipment.

(5) You must operate the CPMS and collect emission capture system and add-on control device parameter data at all times that a controlled coating operation is operating, except during monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, if applicable, calibration checks and required zero and span adjustments).

(6) You must not use emission capture system or add-on control device parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. You must use all the data collected during all other periods in calculating the data averages for determining compliance with the emission capture system and add-on control device operating limits.

(7) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the CPMS to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations is a deviation from the monitoring requirements.

(b) *Capture system bypass line.* You must meet the requirements of paragraphs (b)(1) and (2) of this section for each emission capture system that contains bypass lines that could divert emissions away from the add-on control device to the atmosphere.

(1) You must monitor or secure the valve or closure mechanism controlling the bypass line in a nondiverting position in such a way that the valve or closure mechanism cannot be opened without creating a record that the valve was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the requirements specified in paragraphs (b)(1)(i) through (v) of this section.

(i) *Flow control position indicator.* Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. The time of occurrence and flow control position must be recorded, as well as every time the flow direction is changed. The flow control position indicator must be installed at the entrance to any bypass line that could divert the emissions away from the add-on control device to the atmosphere.

(ii) *Car-seal or lock-and-key valve closures.* Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. You must visually inspect the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position, and the emissions are not diverted away from the add-on control device to the atmosphere.

(iii) *Valve closure monitoring.* Ensure that any bypass line valve is in the closed (nondiverting) position through monitoring of valve position at least once every 15 minutes. You must inspect the monitoring system at least once every month to verify that the monitor will indicate valve position.

(iv) *Automatic shutdown system.* Use an automatic shutdown system in which the coating operation is stopped when flow is diverted by the bypass line away from the add-on control device to the atmosphere when the coating operation is running. You must inspect the automatic shutdown system at least once every month to verify that it will detect diversions of flow and shut down the coating operation.

(v) *Flow direction indicator.* Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow direction indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. Each time the flow direction changes, the next reading of the time of occurrence and flow direction must be recorded. The flow direction indicator must be installed in each bypass line or air makeup supply line that could divert the emissions away from the add-on control device to the atmosphere.

(2) If any bypass line is opened, you must include a description of why the bypass line was opened and the length of time it remained open in the semiannual compliance reports required in §63.3920.

(c) *Thermal oxidizers and catalytic oxidizers.* If you are using a thermal oxidizer or catalytic oxidizer as an add-on control device (including those used with concentrators or with carbon adsorbers to treat desorbed concentrate streams), you must comply with the requirements in paragraphs (c)(1) through (3) of this section:

(1) For a thermal oxidizer, install a gas temperature monitor in the firebox of the thermal oxidizer or in the duct immediately downstream of the firebox before any substantial heat exchange occurs.

(2) For a catalytic oxidizer, install gas temperature monitors upstream and/or downstream of the catalyst bed as required in §63.3967(b).

(3) For all thermal oxidizers and catalytic oxidizers, you must meet the requirements in paragraphs (a) and (c)(3)(i) through (v) of this section for each gas temperature monitoring device.

- (i) Locate the temperature sensor in a position that provides a representative temperature.
 - (ii) Use a temperature sensor with a measurement sensitivity of 5 degrees Fahrenheit or 1.0 percent of the temperature value, whichever is larger.
 - (iii) Before using the sensor for the first time or when relocating or replacing the sensor, perform a validation check by comparing the sensor output to a calibrated temperature measurement device or by comparing the sensor output to a simulated temperature.
 - (iv) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor output to redundant temperature sensors, to calibrated temperature measurement devices, or to temperature simulation devices.
 - (v) Conduct a visual inspection of each sensor every quarter if redundant temperature sensors are not used.
 - (g) *Emission capture systems.* The capture system monitoring system must comply with the applicable requirements in paragraphs (g)(1) and (2) of this section. If the source is a magnet wire coating machine, you may use the procedures in section 2.0 of appendix A to this subpart as an alternative.
- (1) For each flow measurement device, you must meet the requirements in paragraphs (a) and (g)(1)(i) through (vii) of this section.
- (i) Locate a flow sensor in a position that provides a representative flow measurement in the duct from each capture device in the emission capture system to the add-on control device.
 - (ii) Use a flow sensor with an accuracy of at least 10 percent of the flow.
 - (iii) Perform an initial sensor calibration in accordance with the manufacturer's requirements.
 - (iv) Perform a validation check before initial use or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values with electronic signal simulations or via relative accuracy testing.
 - (v) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor values with electronic signal simulations or via relative accuracy testing.
 - (vi) Perform leak checks monthly.
 - (vii) Perform visual inspections of the sensor system quarterly if there is no redundant sensor.
- (2) For each pressure drop measurement device, you must comply with the requirements in paragraphs (a) and (g)(2)(i) through (vii) of this section.
- (i) Locate the pressure sensor(s) in or as close to a position that provides a representative measurement of the pressure drop across each opening you are monitoring.
 - (ii) Use a pressure sensor with an accuracy of at least 0.5 inches of water column or 5 percent of the measured value, whichever is larger.
 - (iii) Perform an initial calibration of the sensor according to the manufacturer's requirements.
 - (iv) Conduct a validation check before initial operation or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.
 - (v) Conduct accuracy audits every quarter and after every deviation. Accuracy audits include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.
 - (vi) Perform monthly leak checks on pressure connections. A pressure of at least 1.0 inches of water column to the connection must yield a stable sensor result for at least 15 seconds.

(vii) Perform a visual inspection of the sensor at least monthly if there is no redundant sensor.

§ 63.3980 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (EPA), or a delegated authority such as your State, local, or tribal agency. If the Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are listed in paragraphs (c)(1) through (4) of this section:

(1) Approval of alternatives to the requirements in §63.3881 through 3883 and §63.3890 through 3893.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§ 63.3981 What definitions apply to this subpart?

Terms used in this subpart are defined in the CAA, in 40 CFR 63.2, and in this section as follows:

Additive means a material that is added to a coating after purchase from a supplier (e.g., catalysts, activators, accelerators).

Add-on control means an air pollution control device, such as a thermal oxidizer or carbon adsorber, that reduces pollution in an air stream by destruction or removal before discharge to the atmosphere.

Adhesive, adhesive coating means any chemical substance that is applied for the purpose of bonding two surfaces together. Products used on humans and animals, adhesive tape, contact paper, or any other product with an adhesive incorporated onto or in an inert substrate shall not be considered adhesives under this subpart.

Assembled on-road vehicle coating means any coating operation in which coating is applied to the surface of some component or surface of a fully assembled motor vehicle or trailer intended for on-road use including, but not limited to, components or surfaces on automobiles and light-duty trucks that have been repaired after a collision or otherwise repainted, fleet delivery trucks, and motor homes and other recreational vehicles (including camping trailers and fifth wheels). Assembled on-road vehicle coating includes the concurrent coating of parts of the assembled on-road vehicle that are painted off-vehicle to protect systems, equipment, or to allow full coverage. Assembled on-road vehicle coating does not include surface coating operations that meet the applicability criteria of the automobiles and light-duty trucks NESHAP. Assembled on-road vehicle coating also does not include the use of adhesives, sealants, and caulks used in assembling on-road vehicles.

Capture device means a hood, enclosure, room, floor sweep, or other means of containing or collecting emissions and directing those emissions into an add-on air pollution control device.

Capture efficiency or capture system efficiency means the portion (expressed as a percentage) of the pollutants from an emission source that is delivered to an add-on control device.

Capture system means one or more capture devices intended to collect emissions generated by a coating operation in the use of coatings or cleaning materials, both at the point of application and at subsequent points where emissions from the coatings and cleaning materials occur, such as flashoff, drying, or curing.

As used in this subpart, multiple capture devices that collect emissions generated by a coating operation are considered a single capture system.

Cleaning material means a solvent used to remove contaminants and other materials, such as dirt, grease, oil, and dried or wet coating (e.g., depainting or paint stripping), from a substrate before or after coating application or from equipment associated with a coating operation, such as spray booths, spray guns, racks, tanks, and hangers. Thus, it includes any cleaning material used on substrates or equipment or both.

Coating means a material applied to a substrate for decorative, protective, or functional purposes. Such materials include, but are not limited to, paints, sealants, liquid plastic coatings, caulks, inks, adhesives, and maskants. Decorative, protective, or functional materials that consist only of protective oils for metal, acids, bases, or any combination of these substances, or paper film or plastic film which may be pre-coated with an adhesive by the film manufacturer, are not considered coatings for the purposes of this subpart. A liquid plastic coating means a coating made from fine particle-size polyvinyl chloride (PVC) in solution (also referred to as a plastisol).

Coating operation means equipment used to apply cleaning materials to a substrate to prepare it for coating application (surface preparation) or to remove dried coating; to apply coating to a substrate (coating application) and to dry or cure the coating after application; or to clean coating operation equipment (equipment cleaning). A single coating operation may include any combination of these types of equipment, but always includes at least the point at which a given quantity of coating or cleaning material is applied to a given part and all subsequent points in the affected source where organic HAP are emitted from the specific quantity of coating or cleaning material on the specific part. There may be multiple coating operations in an affected source. Coating application with handheld, non-refillable aerosol containers, touch-up markers, or marking pens is not a coating operation for the purposes of this subpart.

Coatings solids means the nonvolatile portion of the coating that makes up the dry film.

Continuous parameter monitoring system (CPMS) means the total equipment that may be required to meet the data acquisition and availability requirements of this subpart, used to sample, condition (if applicable), analyze, and provide a record of coating operation, or capture system, or add-on control device parameters.

Controlled coating operation means a coating operation from which some or all of the organic HAP emissions are routed through an emission capture system and add-on control device.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart including but not limited to, any emission limit or operating limit or work practice standard;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emission limit, or operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Emission limitation means the aggregate of all requirements associated with a compliance option including emission limit, operating limit, work practice standard, etc.

Enclosure means a structure that surrounds a source of emissions and captures and directs the emissions to an add-on control device.

Exempt compound means a specific compound that is not considered a VOC due to negligible photochemical reactivity. The exempt compounds are listed in 40 CFR 51.100(s).

Extreme performance fluoropolymer coating means coatings that are formulated systems based on fluoropolymer resins which often contain bonding matrix polymers dissolved in non-aqueous solvents as

well as other ingredients. Extreme performance fluoropolymer coatings are typically used when one or more critical performance criteria are required including, but not limited to a nonstick low-energy surface, dry film lubrication, high resistance to chemical attack, extremely wide operating temperature, high electrical insulating properties, or that the surface comply with government (e.g., USDA, FDA) or third party specifications for health, safety, reliability, or performance. Once applied to a substrate, extreme performance fluoropolymer coatings undergo a curing process that typically requires high temperatures, a chemical reaction, or other specialized technology.

Facility maintenance means the routine repair or renovation (including the surface coating) of the tools, equipment, machinery, and structures that comprise the infrastructure of the affected facility and that are necessary for the facility to function in its intended capacity.

General use coating means any material that meets the definition of coating but does not meet the definition of high performance coating, rubber-to-metal coating, magnet wire coating, or extreme performance fluoropolymer coating as defined in this section.

High performance architectural coating means any coating applied to architectural subsections which is required to meet the specifications of Architectural Aluminum Manufacturer's Association's publication number AAMA 605.2-2000.

High performance coating means any coating that meets the definition of high performance architectural coating or high temperature coating in this section.

High temperature coating means any coating applied to a substrate which during normal use must withstand temperatures of at least 538 degrees Celsius (1000 degrees Fahrenheit).

Hobby shop means any surface coating operation, located at an affected source, that is used exclusively for personal, noncommercial purposes by the affected source's employees or assigned personnel.

Magnet wire coatings, commonly referred to as magnet wire enamels, are applied to a continuous strand of wire which will be used to make turns (windings) in electrical devices such as coils, transformers, or motors. Magnet wire coatings provide high dielectric strength and turn-to-turn conductor insulation. This allows the turns of an electrical device to be placed in close proximity to one another which leads to increased coil effectiveness and electrical efficiency.

Magnet wire coating machine means equipment which applies and cures magnet wire coatings.

Manufacturer's formulation data means data on a material (such as a coating) that are supplied by the material manufacturer based on knowledge of the ingredients used to manufacture that material, rather than based on testing of the material with the test methods specified in §63.3941. Manufacturer's formulation data may include, but are not limited to, information on density, organic HAP content, volatile organic matter content, and coating solids content.

Mass fraction of organic HAP means the ratio of the mass of organic HAP to the mass of a material in which it is contained, expressed as kg of organic HAP per kg of material.

Month means a calendar month or a pre-specified period of 28 days to 35 days to allow for flexibility in recordkeeping when data are based on a business accounting period.

Non-HAP coating means, for the purposes of this subpart, a coating that contains no more than 0.1 percent by mass of any individual organic HAP that is an OSHA-defined carcinogen as specified in 29 CFR 1910.1200(d)(4) and no more than 1.0 percent by mass for any other individual HAP.

Organic HAP content means the mass of organic HAP emitted per volume of coating solids used for a coating calculated using Equation 2 of §63.3941. The organic HAP content is determined for the coating in the condition it is in when received from its manufacturer or supplier and does not account for any alteration after receipt. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, organic HAP content is the mass of organic HAP that is emitted, rather than the organic HAP content of the coating as it is received.

Permanent total enclosure (PTE) means a permanently installed enclosure that meets the criteria of Method 204 of appendix M, 40 CFR part 51, for a PTE and that directs all the exhaust gases from the enclosure to an add-on control device.

Personal watercraft means a vessel (boat) which uses an inboard motor powering a water jet pump as its primary source of motive power and which is designed to be operated by a person or persons sitting, standing, or kneeling on the vessel, rather than in the conventional manner of sitting or standing inside the vessel.

Protective oil means an organic material that is applied to metal for the purpose of providing lubrication or protection from corrosion without forming a solid film. This definition of protective oil includes, but is not limited to, lubricating oils, evaporative oils (including those that evaporate completely), and extrusion oils. Protective oils used on miscellaneous metal parts and products include magnet wire lubricants and soft temporary protective coatings that are removed prior to installation or further assembly of a part or component.

Reactive adhesive means adhesive systems composed, in part, of volatile monomers that react during the adhesive curing reaction, and, as a result, do not evolve from the film during use. These volatile components instead become integral parts of the adhesive through chemical reaction. At least 70 percent of the liquid components of the system, excluding water, react during the process.

Research or laboratory facility means a facility whose primary purpose is for research and development of new processes and products, that is conducted under the close supervision of technically trained personnel, and is not engaged in the manufacture of final or intermediate products for commercial purposes, except in a *de minimis* manner.

Responsible official means responsible official as defined in 40 CFR 70.2.

Rubber-to-metal coatings are coatings that contain heat-activated polymer systems in either solvent or water that, when applied to metal substrates, dry to a non-tacky surface and react chemically with the rubber and metal during a vulcanization process.

Startup, initial means the first time equipment is brought online in a facility.

Surface preparation means use of a cleaning material on a portion of or all of a substrate. This includes use of a cleaning material to remove dried coating, which is sometimes called *depainting*.

Temporary total enclosure means an enclosure constructed for the purpose of measuring the capture efficiency of pollutants emitted from a given source as defined in Method 204 of appendix M, 40 CFR part 51.

Thinner means an organic solvent that is added to a coating after the coating is received from the supplier.

Total volatile hydrocarbon (TVH) means the total amount of nonaqueous volatile organic matter determined according to Methods 204 and 204A through 204F of appendix M to 40 CFR part 51 and substituting the term TVH each place in the methods where the term VOC is used. The TVH includes both VOC and non-VOC.

Uncontrolled coating operation means a coating operation from which none of the organic HAP emissions are routed through an emission capture system and add-on control device.

Volatile organic compound (VOC) means any compound defined as VOC in 40 CFR 51.100(s).

Volume fraction of coating solids means the ratio of the volume of coating solids (also known as the volume of nonvolatiles) to the volume of a coating in which it is contained; liters (gal) of coating solids per liter (gal) of coating.

Wastewater means water that is generated in a coating operation and is collected, stored, or treated prior to being discarded or discharged.

Table 1 to Subpart M of Part 63—Operating Limits if Using the Emission Rate With Add-On Controls Option

For the following device . . .	You must meet the following operating limit	And you must demonstrate continuous compliance with the operating limit by
1. Thermal oxidizer	a. The average Combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to §63.3967(a).	i. Collecting the combustion temperature data according to §63.3968(c); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average Combustion temperature at or above the temperature limit.
2. Catalytic oxidizer	a. The average Temperature measured just before the catalyst bed in any 3-hour period must not fall below the limit established according to §63.3967(b) (for magnet wire coating machines, temperature can be monitored before or after the catalyst bed); and either b. Ensure that the average temperature difference across the catalyst bed in any 3-hour period does not fall below the temperature difference limit established according to §63.3967(b) (2); or c. Develop and implement an inspection and maintenance plan according to §63.3967(b)(4) or for magnet wire coating machines according to section 3.0 of appendix A to this subpart.	i. Collecting the temperature data according to §63.3968(c); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average temperature before (or for magnet wire coating machines after) the catalyst bed at or above the temperature limit. i. Collecting the temperature data according to §63.3968(c); ii. Reducing the data to 3-hour block averages; and iii. Maintaining the 3-hour average Temperature difference at or above the temperature difference limit. i. Maintaining and up-to-date inspection and maintenance plan, records of annual catalyst activity checks, records of monthly inspections of the oxidizer system, and records of the annual internal inspections of the catalyst bed. If a problem is discovered during a monthly or annual inspection required by §63.3967(b)(4) or for magnet wire coating machines by section 3.0 of appendix A to this subpart, you must take corrective action as soon as practicable consistent with the manufacturer's recommendations.
6. Emission capture system that is a PTE according to §63.3965(a).	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all natural draft openings in the enclosure must be at	i. Collecting the direction of air flow, and either the facial velocity of air through all natural draft openings according to §63.3968(b)(1) or the pressure drop across the enclosure according to §63.3968(g)(2); and ii. Maintaining the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintaining the direction of air flow into the enclosure at all times. i. See items 6.a.i and 6.a.ii.

Table 1 to Subpart M MMM of Part 63—Operating Limits if Using the Emission Rate With Add-On Controls Option

For the following device	You must meet the following operating limit	And you must demonstrate continuous compliance with the operating limit by
7. Emission capture system that is not a PTE according to §63.3965(a).	<p>least 200 feet per minutes; or</p> <p>c. The pressure drop across the enclosure must be at least 0.007 inch H₂O, as established in Method 204 of appendix M to 40 CFR part 51.</p> <p>a. The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to §63.3967(f).</p>	<p>i. See items 6.a.i and 6.a.ii.</p> <p>i. Collecting the gas volumetric flow rate or duct static pressure for each capture device according to §63.3968(g);</p> <p>ii. Reducing the data to 3-hour block averages; and</p> <p>iii. Maintaining the 3-hour average gas volumetric flow rate or duct static pressure for each capture device at or above the gas volumetric flow rate or duct static pressure limited.</p>

Table 2 to Subpart M MMM of Part 63—Applicability of General Provisions to Subpart M MMM of Part 63

Citation	Subject	Applicable to subpart M MMM	Explanation
§ 63.1(a)(1)-(14)	General Applicability.	Yes.	
§ 63.1(b)(1)-(3)	Initial Applicability Determination.	Yes	Applicability to subpart M MMM is also specified in §63.3881.
§ 63.1(c)(1)	Applicability After Standard Established.	Yes.	
§ 63.1(c)(4)-(5)	Extensions and Notifications.	Yes.	
§ 63.1(e)	Applicability of Permit Program Before Relevant Standard is Set.	Yes.	
§ 63.2	Definitions	Yes	Additional definitions are specified in §63.3981.
§ 63.1(a)-(c)	Units and Abbreviations.	Yes.	
§ 63.4(a)(1)-(5)	Prohibited Activities.	Yes.	
§ 63.4(b)-(c).	Circumvention/ Severability.	Yes.	
§ 63.5(a)	Construction/ Reconstruction.	Yes.	

Table 2 to Subpart M MMM of Part 63—Applicability of General Provisions to Subpart M MMM of Part 63

Citation	Subject	Applicable to subpart M MMM	Explanation
§ 63.5(b)(1)-(6)	Requirements for Existing, Newly Constructed, and Reconstructed Sources.	Yes.	
§ 63.5(d)	Application for Approval of Construction/Reconstruction.	Yes.	
§ 63.5(e)	Approval of Construction/Reconstruction.	Yes.	
§ 63.5(f)	Approval of Construction/Reconstruction Based on Prior State Review.	Yes.	
§ 63.6(a)	Compliance With Standards and Maintenance Requirements -Applicability.	Yes.	
§ 63.6(b)(1)-(7).	Compliance Dates for New and Reconstructed Sources	Yes	Section 63.3883 specifies the compliance dates.
§ 63.6(c)(1)-(5)	Compliance Dates for Existing Sources.	Yes	Section 63.3883 specifies the compliance dates.
§ 63.6(e)(1)-(2)	Operation and Maintenance.	Yes.	
§ 63.6(e)(3)	Startup, Shutdown, and Malfunction Plan.	Yes	Only sources using an add-on control device to comply with the standard must complete startup, shutdown, and malfunction plans.
§ 63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction.	Yes	Applies only to sources using an add-on control device to comply with the standard.
§ 63.6(f)(2)-(3).	Methods for Determining Compliance..	Yes.	
§ 63.6(g)(1)-(3)	Use of an Alternative Standard.	Yes	
§ 63.6(i)(1)-(16)	Extension of Compliance.	Yes.	
§ 63.6(j)	Presidential Compliance Exemption.	Yes.	
§ 63.7(a)(1).	Performance Test Requirements - Applicability.	Yes	Applies to all affected sources. Additional requirements for performance testing are specified in §§ 63.3964, 63.3965, and 63.3966.

Table 2 to Subpart M M M M of Part 63—Applicability of General Provisions to Subpart M M M M of Part 63

Citation	Subject	Applicable to subpart M M M M	Explanation
§ 63.7(a)(2)	Performance Test Requirements - Dates.	Yes	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standard. Section 63.3960 specifies the schedule for performance test requirements that are earlier than those specified in §63.7(a)(2).
§ 63.7(a)(3).	Performance Tests Required By the Administrator.	Yes.	
§ 63.7(b)-(e)	Performance Test Requirements - Notification, Quality Assurance, Facilities Necessary for Safe Testing, Conditions During Test.	Yes	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standard.
§ 63.7(f)	Performance Test Requirements - Use of Alternative Test Method. efficiency.	Yes	Applies to all test methods except those used to determine capture system
§ 63.7(g)-(h)	Performance Test Requirements - Data Analysis, Recordkeeping, Reporting, Waiver of Test.	Yes	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standard.
§ 63.8(a)(1)-(3)	Monitoring Requirements - Applicability.	Yes	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for monitoring are specified in §63.3968.
§ 63.8(b)	Conduct of Monitoring.	Yes.	
§ 63.8(c)(1)-(3)	Continuous Monitoring Systems (CMS) Operation and Maintenance.	Yes	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for CMS operations and maintenance are specified in §63.3968.
§ 63.8(c)(7)	CMS Out-of-Control Periods.	Yes.	
§ 63.8(f)(1)-(5)	Use of an Alternative Monitoring Method.	Yes.	
§ 63.9(a)-(d).	Notification Requirements.	Yes.	
§ 63.9(e)	Notification of Performance Test.	Yes	Applies only to capture system and add-on control device performance tests at sources using these to comply with the standard.

Table 2 to Subpart M M M M of Part 63—Applicability of General Provisions to Subpart M M M M of Part 63

Citation	Subject	Applicable to subpart M M M M	Explanation
§ 63.9(h).	Notification of Compliance Status.	Yes	Section 63.3910 specifies the dates for submitting the notification of compliance status.
§ 63.9(i).	Adjustment of Submittal Deadlines.	Yes.	
§ 63.9(j).	Change in Previous Information.	Yes.	
§ 63.10(a).	Recordkeeping/ Reporting Applicability and General Information.	Yes.	
§ 63.10(b)(1).	General Recordkeeping Requirements.	Yes	Additional requirements are specified in §§ 63.3930 and 63.3931.
§ 63.10(b)(2)(i)-(v)	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS.	Yes	Requirements for startup, shutdown, and malfunction records only apply to add-on control devices used to comply with the standard.
§ 63.10(b)(2)(vi)-(xi)	...	Yes.	
§ 63.10(b)(2)(xii)	Records	Yes.	
§ 63.10(b)(2)(xiv)	...	Yes.	
§ 63.10(b)(3).	Recordkeeping Requirements for Applicability Determinations.	Yes.	
§ 63.10(c)(1)-(6)	Additional Recordkeeping Requirements for Sources with CMS.	Yes.	
§ 63.10(c)(9)-(15)	...	Yes.	
§ 63.10(d)(1)	General Reporting Requirements.	Yes	Additional requirements are specified in §63.3920.
§ 63.10(d)(2)	Report of Performance Test Results.	Yes	Additional requirements are specified in §63.3920(b).
§ 63.10(d)(4)..	Progress Reports for Sources With Compliance Extensions.	Yes.	
§ 63.10(d)(5).	Startup, Shutdown, and Malfunction Reports.	Yes	Applies only to add-on control devices at sources using these to comply with the standard.

Table 2 to Subpart MMMM of Part 63—Applicability of General Provisions to Subpart MMMM of Part 63

Citation	Subject	Applicable to subpart MMMM	Explanation
§ 63.10(f).	Recordkeeping/ Reporting Waiver.	Yes.	
§ 63.12	State Authority and Delegations.	Yes.	
§ 63.13..	Addresses	Yes.	
§ 63.14..	Incorporation by Reference.	Yes.	
§ 63.15..	Availability of Information/ Confidentiality.	Yes.	

Table 3 to Subpart MMMM of Part 63—Default Organic HAP Mass Fraction for Solvents and Solvent Blends

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data and which match either the solvent blend name or the chemical abstract series (CAS) number. If a solvent blend matches both the name and CAS number for an entry, that entry's organic HAP mass fraction must be used for that solvent blend. Otherwise, use the organic HAP mass fraction for the entry matching either the solvent blend name or CAS number, or use the organic HAP mass fraction from table 4 to this subpart if neither the name or CAS number match.

Solvent/solvent blend	CAS. No.	Average organic HAP mass fraction	Typical organic HAP, percent by mass
1. Toluene.....	108-88-3	1.0	Toluene.
2. Xylene(s).....	1330-20-7	1.0	Xylenes, ethylbenzene.
3. Hexane.....	110-54-3	0.5	n-hexane.
4. n-Hexane.....	110-54-3	1.0	n-hexane.
5. Ethylbenzene.....	100-41-4	1.0	Ethylbenzene.
6. Aliphatic 140.....	0	None.
7. Aromatic 100.....	0.02	1% xylene, 1% cumene.
8. Aromatic 150.....	0.09	Naphthalene.
9. Aromatic naphtha.....	64742-95-6	0.02	1% xylene, 1% cumene.
10. Aromatic solvent.....	64742-94-5	0.1	Naphthalene.
11. Exempt mineral spirits.....	8032-32-4	0	None.
12. Ligroines (VM & P).....	8032-32-4	0	None.
13. Lactol spirits.....	64742-89-6	0.15	Toluene.
14. Low aromatic white spirit....	64742-82-1	0	None.
15. Mineral spirits.....	64742-88-7	0.01	Xylenes.
16. Hydrotreated naphtha.....	64742-48-9	0	None.
17. Hydrotreated light distillate.	64742-47-8	0.001	Toluene.
18. Stoddard solvent.....	8052-41-3	0.01	Xylenes.
19. Super high-flash naphtha....	64742-95-6	0.05	Xylenes.
20. Varsol ® solvent.....	8052-49-3	0.01	0.5% xylenes, 0.5% ethylbenzene.
21. VM & P naphtha.....	64742-89-8	0.06	3% toluene, 3% xylene.
22. Petroleum distillate mixture..	68477-31-6	0.08	4% naphthalene, 4% biphenyl.

Table 4 to Subpart MMMM of Part 63—Default Organic HAP Mass Fraction for Petroleum Solvent Groups^a

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.

Solvent type	Average organic HAP mass fraction	Typical organic HAP, percent by mass
Aliphatic ^b	0.03	1% Xylene, 1% Toluene, and 1% Ethylbenzene.
Aromatic ^c	0.06	4% Xylene, 1% Toluene, and 1% Ethylbenzene.

a Use this table only if the solvent blend does not match any of the solvent blends in Table 3 to this subpart by either solvent blend name or CAS number and you only know whether the blend is aliphatic or aromatic.

b Mineral Spirits 135, Mineral Spirits 150 EC, Naphtha, Mixed Hydrocarbon, Aliphatic Hydrocarbon, Aliphatic Naphtha, Naphthol Spirits, Petroleum Spirits, Petroleum Oil, Petroleum Naphtha, Solvent Naphtha, Solvent Blend.

c Medium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.

Appendix A to Subpart MMMM of Part 63—Alternative Capture Efficiency and Destruction Efficiency Measurement and Monitoring Procedures for Magnet Wire Coating Operations

1.0 Introduction.

1.1 These alternative procedures for capture efficiency and destruction efficiency measurement and monitoring are intended principally for newer magnet wire coating machines where the control device is internal and integral to the oven so that it is difficult or infeasible to make gas measurements at the inlet to the control device.

1.2 In newer gas fired magnet wire ovens with thermal control (no catalyst), the burner tube serves as the control device (thermal oxidizer) for the process. The combustion of solvents in the burner tube is the principal source of heat for the oven.

1.3 In newer magnet wire ovens with a catalyst there is either a burner tube (gas fired ovens) or a tube filled with electric heating elements (electric heated oven) before the catalyst. A large portion of the solvent is often oxidized before reaching the catalyst. The combustion of solvents in the tube and across the catalyst is the principal source of heat for the oven. The internal catalyst in these ovens cannot be accessed without disassembly of the oven. This disassembly includes removal of the oven insulation. Oven reassembly often requires the installation of new oven insulation.

1.4 Some older magnet wire ovens have external afterburners. A significant portion of the solvent is oxidized within these ovens as well.

1.5 The alternative procedure for destruction efficiency determines the organic carbon content of the volatiles entering the control device based on the quantity of coating used, the carbon content of the volatile portion of the coating and the efficiency of the capture system. The organic carbon content of the control device outlet (oven exhaust for ovens without an external afterburner) is determined using Method 25 or 25A.

1.6 When it is difficult or infeasible to make gas measurements at the inlet to the control device, measuring capture efficiency with a gas-to-gas protocol (see §63.3965(d)) which relies on direct measurement of the captured gas stream will also be difficult or infeasible. In these situations, capture efficiency measurement is more appropriately done with a procedure which does not rely on direct measurement of the captured gas stream.

1.7 Magnet wire ovens are relatively small compared to many other coating ovens. The exhaust rate from an oven is low and varies as the coating use rate and solvent loading rate change from job to job. The air balance in magnet wire ovens is critical to product quality. Magnet wire ovens must be operated under negative pressure to avoid smoke and odor in the workplace, and the exhaust rate must be sufficient to prevent over heating within the oven.

1.8 The liquid and gas measurements needed to determine capture efficiency and control device efficiency using these alternative procedures may be made simultaneously.

1.9 Magnet wire facilities may have many (e.g., 20 to 70 or more) individual coating lines each with its own capture and control system. With approval, representative capture efficiency and control device efficiency testing of one magnet wire coating machine out of a group of identical or very similar magnet wire coating machines may be performed rather than testing every individual magnet wire coating machine. The operating parameters must be established for each tested magnet wire coating machine during each capture efficiency test and each control device efficiency test. The operating parameters established for each tested magnet wire coating machine also serve as the operating parameters for untested or very similar magnet wire coating machines represented by a tested magnet wire coating machine.

2.0 Capture Efficiency.

2.1 If the capture system is a permanent total enclosure as described in §63.3965(a), then its capture efficiency may be assumed to be 100 percent.

2.2 If the capture system is not a permanent total enclosure, then capture efficiency must be determined using the liquid-to-uncaptured-gas protocol using a temporary total enclosure or building enclosure in §63.3965(c), or an alternative capture efficiency protocol (see §63.3965(e)) which does not rely on direct measurement of the captured gas stream.

2.3 As an alternative to establishing and monitoring the capture efficiency operating parameters in §63.3967(f), the monitoring described in either section 2.4 or 2.5, and the monitoring described in sections 2.6 and 2.7 may be used for magnet wire coating machines.

2.4 Each magnet wire oven must be equipped with an interlock mechanism which will stop or prohibit the application of coating either when any exhaust fan for that oven is not operating or when the oven experiences an over limit temperature condition.

2.5 Each magnet wire oven must be equipped with an alarm which will be activated either when any oven exhaust fan is not operating or when the oven experiences an over limit temperature condition.

2.6 If the interlock in 2.4 or the alarm in 2.5 is monitoring for over limit temperature conditions, then the temperature(s) that will trigger the interlock or the alarm must be included in the start-up, shutdown and malfunction plan and the interlock or alarm must be set to be activated when the oven reaches that temperature.

2.7 Once every 6 months, each magnet wire oven must be checked using a smoke stick or equivalent approach to confirm that the oven is operating at negative pressure compared to the surrounding atmosphere.

3.0 Control Device Efficiency.

3.1 Determine the weight fraction carbon content of the volatile portion of each coating, thinner, additive, or cleaning material used during each test run using either the procedure in section 3.2 or 3.3.

3.2 Following the procedures in Method 204F, distill a sample of each coating, thinner, additive, or cleaning material used during each test run to separate the volatile portion. Determine the weight fraction carbon content of each distillate using ASTM Method D5291-02, "Standard Test Methods for Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricants" (incorporated by reference, see §63.14).

3.3 Analyze each coating, thinner, additive or cleaning material used during each test run using Method 311. For each volatile compound detected in the gas chromatographic analysis of each coating, thinner, additive, or cleaning material calculate the weight fraction of that whole compound in the coating, thinner, additive, or cleaning material. For each volatile compound detected in the gas chromatographic analysis of each coating, thinner, additive, or cleaning material calculate the weight fraction of the carbon in that compound in the coating, thinner, additive, or cleaning material. Calculate the weight fraction carbon

content of each coating, thinner, additive, or cleaning material as the ratio of the sum of the carbon weight fractions divided by the sum of the whole compound weight fractions.

3.4 Determine the mass fraction of total volatile hydrocarbon (TVH_i) in each coating, thinner, additive, or cleaning material, *i*, used during each test run using Method 24. The mass fraction of total volatile hydrocarbon equals the weight fraction volatile matter (W_v in Method 24) minus the weight fraction water (W_w in Method 24), if any, present in the coating. The ASTM Method D6053–00, “Standard Test Method for Determination of Volatile Organic Compound (VOC) Content of Electrical Insulating Varnishes” (incorporated by reference, see §63.14), may be used as an alternative to Method 24 for magnet wire enamels. The specimen size for testing magnet wire enamels with ASTM Method D6053–00 must be 2.0 ±0.1 grams.

3.5 Determine the volume (VOL_i) or mass (MASS_i) of each coating, thinner, additive, or cleaning material, *i*, used during each test run.

3.6 Calculate the total volatile hydrocarbon input (TVHC_{inlet}) to the control device during each test run, as carbon, using Equation 1:

$$TVHC_{inlet} = \sum_{i=1}^n (TVH_i \times VOL_i \times D_i \times CD_i) \quad (Eq. 1)$$

where:

TVH_i = Mass fraction of TVH in coating, thinner, additive, or cleaning material, *i*, used in the coating operation during the test run.

VOL_i = Volume of coating, thinner, additive, or cleaning material, *i*, used in the coating operation during the test run, liters.

D_i = Density of coating, thinner, additive, or cleaning material, *i*, used in the coating operation during the test run, kg per liter.

CD_i = Weight fraction carbon content of the distillate from coating, thinner, additive, or cleaning material, *i*, used in the coating operation during the test run, percent.

n = Number of coating, thinner, additive, and cleaning materials used in the coating operation during the test run.

3.7 If the mass, MASS_i, of each coating, solvent, additive, or cleaning material, *i*, used during the test run is measured directly then MASS_i can be substituted for VOL_i × D_i in Equation 1 in section 3.6.

3.8 Determine the TVHC output (TVHC_{outlet}) from the control device, as carbon, during each test run using the methods in §63.3966(a) and the procedure for determining M_{fo} in §63.3966(d). TVHC_{outlet} equals M_{fo} times the length of the test run in hours.

3.9 Determine the control device efficiency (DRE) for each test run using Equation 2:

$$DRE = \frac{(TVHC_{inlet} - TVHC_{outlet})}{TVHC_{inlet}} \times 100 \quad (Eq. 2)$$

3.10 The efficiency of the control device is the average of the three individual test run values determined in section 3.9.

3.11 As an alternative to establishing and monitoring the destruction efficiency operating parameters for catalytic oxidizers in §63.3967(b), the monitoring described in sections 3.12 and 3.13 may be used for magnet wire coating machines equipped with catalytic oxidizers.

3.12 During the performance test, you must monitor and record the temperature either just before or just after the catalyst bed at least once every 15 minutes during each of the three test runs. Use the data collected during the performance test to calculate and record the average temperature either just before or

just after the catalyst bed during the performance test. This is the minimum operating limit for your catalytic oxidizer and for the catalytic oxidizers in identical or very similar magnet wire coating machines represented by the tested magnet wire coating machine.

3.13 You must develop and implement an inspection and maintenance plan for your catalytic oxidizer(s). The plan must address, at a minimum, the elements specified in sections 3.14 and 3.15, and the elements specified in either (a) section 3.16 or (b) sections 3.17 and 3.18.

3.14 You must conduct a monthly external inspection of each catalytic oxidizer system, including the burner assembly and fuel supply lines for problems and, as necessary, adjust the equipment to assure proper air-to-fuel mixtures.

3.15 You must conduct an annual internal inspection of each accessible catalyst bed to check for channeling, abrasion, and settling. If problems are found, you must replace the catalyst bed or take corrective action consistent with the manufacturer's recommendations. This provision does not apply to internal catalysts which cannot be accessed without disassembling the magnet wire oven.

3.16 You must take a sample of each catalyst bed and perform an analysis of the catalyst activity (*i.e.*, conversion efficiency) following the manufacturer's or catalyst supplier's recommended procedures. This sampling and analysis must be done within the time period shown in Table 1 below of the most recent of the last catalyst activity test or the last catalyst replacement. For example, if the warranty for the catalyst is 3 years and the catalyst was more recently replaced then the sampling and analysis must be done within the earlier of 26,280 operating hours or 5 calendar years of the last catalyst replacement. If the warranty for the catalyst is 3 years and the catalyst was more recently tested then the sampling and analysis must be done within the earlier of 13,140 operating hours or 3 calendar years of the last catalyst activity test. If problems are found during the catalyst activity test, you must replace the catalyst bed or take corrective action consistent with the manufacturer's recommendations.

Table 1_Catalyst Monitoring Requirements

If the catalyst was last (more recently) replaced and the warranty period is . . .	Then the time between catalyst replacement and the next catalyst activity test cannot exceed the earlier of . . .	And the catalyst was more recently tested, then the time between catalyst activity tests cannot exceed the earlier of . . .
1 year.....	8,760 operating hours or 5 calendar years.	8,760 operating hours or 3 calendar years.
2 years.....	15,520 operating hours or 5 calendar years.	8,760 operating hours or 3 calendar years.
3 years.....	26,280 operating hours or 5 calendar years.	13,100 operating hours or 3 calendar years.
4 years.....	35,040 operating hours or 5 calendar years.	17,520 operating hours or 3 calendar years.
5 or more years.....	43,800 operating hours or 5 calendar years.	21,900 operating hours or 3 calendar years.

3.17 During the performance test, you must determine the average concentration of organic compounds as carbon in the magnet wire oven exhaust stack gases (C_c in Equation 1 in §63.3966(d)) and the destruction efficiency of the catalytic oxidizer, and calculate the operating limit for oven exhaust stack gas concentration as follows. You must identify the highest organic HAP content coating used on this magnet wire coating machine or any identical or very similar magnet wire coating machines to which the same

destruction efficiency test results will be applied. Calculate the percent emission reduction necessary to meet the magnet wire coating emission limit when using this coating. Calculate the average concentration of organic compounds as carbon in the magnet wire oven exhaust stack gases that would be equivalent to exactly meeting the magnet wire coating emissions limit when using the highest organic HAP content coating. The maximum operating limit for oven exhaust stack gas concentration equals 90 percent of this calculated concentration.

3.18 For each magnet wire coating machine equipped with a catalytic oxidizer you must perform an annual 10 minute test of the oven exhaust stack gases using EPA Method 25A. This test must be performed under steady state operating conditions similar to those at which the last destruction efficiency test for equipment of that type (either the specific magnet wire coating machine or an identical or very similar magnet wire coating machine) was conducted. If the average exhaust stack gas concentration during the annual test of a magnet wire coating machine equipped with a catalytic oxidizer is greater than the operating limit established in section 3.17 then that is a deviation from the operating limit for that catalytic oxidizer. If problems are found during the annual 10-minute test of the oven exhaust stack gases, you must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations.

3.19 If a catalyst bed is replaced and the replacement catalyst is not of like or better kind and quality as the old catalyst, then you must conduct a new performance test to determine destruction efficiency according to §63.3966 and establish new operating limits for that catalytic oxidizer unless destruction efficiency test results and operating limits for an identical or very similar unit (including consideration of the replacement catalyst) are available and approved for use for the catalytic oxidizer with the replacement catalyst.

3.20 If a catalyst bed is replaced and the replacement catalyst is of like or better kind and quality as the old catalyst, then a new performance test to determine destruction efficiency is not required and you may continue to use the previously established operating limits for that catalytic oxidizer.

D.2.12 One Time Deadlines Relating to NESHAP Subpart M

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

Requirement	Rule Cite	Affected Facility	Deadline
Submit Initial Notification	40 CFR 63.3910(b)	Entire Source	January 2, 2005
Conduct Initial Compliance Demonstrations	40 CFR 63.3940, 63.3950, 63.3960	Entire Source	January 31, 2008
Submit Notification of Intent to Conduct a Performance Test	40 CFR 63.7(b) and 63.9(e)	Ovens that Undergo Performance Test	November 3, 2006
Conduct Performance Test	40 CFR 63.3960(b)(1)	Ovens that Undergo Performance Test	January 2, 2007
Develop and Implement Work Practice Plan	40 CFR 63.3960(b)(2)	Entire Source	January 2, 2007
Results of Initial Performance Tests	40 CFR 63.3920(b)	Ovens that Undergo Performance Test	March 3, 2007
Notification of Compliance Status	40 CFR 63.3910(c)	Entire Source	March 1, 2008
First Semiannual Compliance Report	40 CFR 63.3920(a)(1)	Entire Source	July 31, 2008

SECTION D.3

FACILITY OPERATION CONDITIONS

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

Insignificant Activities - Degreaser

Magnet Wire Coating Plant

- (a) Degreasing operation with a maximum usage of 2533 pounds per year of hydrocarbon. [326 IAC 8-3-2]

(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.3.1 326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the Permittee of a cold cleaning facility shall:

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269

**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 DATA SECTION

Part 70 Quarterly Report

Source Name: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269
Facility: Oven 52
Parameter: VOC emissions
Limit: Less than 31.25 tons per twelve (12) consecutive month period

QUARTER :

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: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269
Facility: Oven 65 and 66
Parameter: VOC emissions
Limit: Less than 40 tons total per twelve (12) consecutive month period

QUARTER :

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 BRANCH
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">C The Permittee shall notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); andC The Permittee shall 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 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269

Natural Gas Only
 Alternate Fuel burned
From: _____ To: _____

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for 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: Essex Group, Inc. Fort Wayne Complex
 Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
 1700 West Swinney, Fort Wayne, Indiana 46802
 Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
 Part 70 Permit No.: T003-18362-00269

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for a Part 70 (Title V) Operating Permit Renewal

Source Background and Description

Source Name: Essex Group, Inc. Fort Wayne Complex
Source Location: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
County: Allen
SIC Code: 3357, 2851
Operation Permit No.: T003-18362-00269
Permit Reviewer: ERG/ST

On August 30, 2006, the Office of Air Quality (OAQ) had a notice published in the Fort Wayne Journal Gazette, Fort Wayne, Indiana, stating that Essex Group, Inc. Fort Wayne Complex had applied for a Part 70 (Title V) Operating Permit Renewal to operate a stationary chemical processing and magnet wire coating operation with control. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On September 8, 2006 and September 22, 2006, Essex Group, Inc. Fort Wayne Complex submitted comments on the proposed Part 70 Renewal. The summary of the comments is as follows:

Comment 1: Revise the calculations (Appendix A) to show that there is no control on the VOC emissions from the wire lube.

IDEM Response to Comment 1: Appendix A to the Addendum shows the revised calculations.

Comment 2: The actual daily emissions of VOC from wire coating machines 24, 25 and 26 are less than 15 pounds per day. Prior permits have not required reporting of daily VOC emissions for wire coating machines 24, 25 and 26. Please remove this requirement from the permit.

IDEM Response to Comment 2: Although the potential to emit of VOC (15.8 pounds per day) for wire coating machines 24, 25 and 26 is greater than 15 pounds per day, the source's records show that actual emissions are less than 15 pounds per day. Recordkeeping is adequate to ensure compliance with the limit in Condition D.2.1(e) (formerly D.3.1(e)) in the permit. Therefore, the Part 70 Quarterly Report form for these emission units has been removed from the permit. Also, these ovens were not constructed under T003-7654-00269, issued on September 30, 1999. Therefore, that reference has been deleted from Condition D.2.1(e) (formerly D.3.1(e)). The permit has been changed as follows. Note that the revisions shown below include other changes that are discussed elsewhere in this addendum.

~~D.3.1~~ **D.2.1** Volatile Organic Compound (VOC) Emission Limitations [326 IAC 8-2-8]

...

- (e) Pursuant to T003-7654-00269, issued on September 30, 1999, the VOC emissions from wire coating machines 24, 25, and 26 shall not exceed ~~be less than~~ 15 pounds per

day per oven. Compliance with this limit shall render the requirements of 326 IAC 8-2-8 not applicable to these facilities.

D.3.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1(e) 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).

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

Part 70 Quarterly Report

Source Name: Essex Group, Inc. Fort Wayne Complex
 Source Address: Chemical Processing Plant: 1700 West Swinney, Fort Wayne, Indiana 46802
 Magnet Wire Plant: 1601 Wall St. Fort Wayne, Indiana 46802
 Mailing Address: Chemical Processing Plant: 1700 West Swinney, Fort Wayne, Indiana 46802
 Magnet Wire Plant: 1601 Wall St. Fort Wayne, Indiana 46802
 Part 70 Permit No.: T003-18362-00269
 Facility: Wire coating ovens 24, 25 and 26
 Parameter: VOC
 Limit: The VOC input to ovens 24, 25, and 26 shall not exceed 15 pounds per day per oven.

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.~~

Comment 3: The Permittee requests more information on the applicability of 40 CFR 60, Subpart Dc to the natural gas-fired boiler identified as WB. This requirement has not been included in previous permits.

Response to Comment 3: The applicability of 40 CFR 60, Subpart Dc to the natural gas-fired boiler identified as WB is stated in the Technical Source Document. The boiler is subject to the record keeping provisions of this rule because it has a heat input capacity greater than 10 MMBtu/hr but less than 100 MMBtu/hr, it was constructed after June 9, 1989, and it is defined as a "steam generating unit" pursuant to 40 CFR 60.41c. However, there are no applicable emission standards for this natural gas-fired boiler. Although this requirement was not included in T003-7654-00269, issued on September 30, 1999, the requirement to keep records of the amount of natural gas used in boiler WB should be included in the permit. Also, 40 CFR 60.48c, which was amended on February 27, 2006, has not been incorporated into the Indiana SIP. The recordkeeping requirements for 326 IAC 12 are different from 40 CFR 60, Subpart Dc, and have been added to the permit. There are no reporting requirements for these boilers under 40 CFR 60, Subpart Dc and 326 IAC 12. However, as boiler EB burns both natural gas and fuel oil as backup, the source is required to submit a semi-annual natural gas fired boiler certification.

The permit has been changed as follows. Note that the revisions shown below include other changes that are discussed elsewhere in this addendum.

D.2.8 D.1.8 Record Keeping Requirements [326 IAC 12] [40 CFR 60, Subpart Dc]

- (a) **Pursuant to 40 CFR 60, Subpart Dc and to** ~~To~~ document compliance with Condition ~~D.2.2 D.1.2~~, the Permittee shall maintain records ~~of~~ in accordance with (1) through (6) below **for boiler EB**. Note that pursuant to 40 CFR 60, Subpart Dc, the fuel oil sulfur limit **and SO₂ emission limit** applies at all times including periods of startup, shutdown and malfunction.
- (1) Calendar dates covered in the compliance determination period;
 - (2) **Daily records of actual** ~~Actual~~ fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions.
 - (3) To certify compliance when burning natural gas only, the Permittee shall maintain **monthly** records of fuel used.

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

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

- (b) To document compliance with Condition ~~D.2.7 D.1.7~~, the Permittee shall maintain records of visible emission notations of the boiler **EB** stack exhaust once per day **when burning fuel oil**.

- (c) Pursuant to 40 CFR 60.43c(b), Subpart Dc, the Permittee shall record and maintain monthly records of all fuels burned in each boiler.
- (d) Pursuant to 326 IAC 12, the Permittee shall record and maintain daily records of all fuels burned in each boiler. This is not federally enforceable.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.9 Reporting Requirements [326 IAC 12] [40 CFR 60, Subpart Dc]

- (a) ~~The natural gas boiler certification for boiler EB shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~
- (b) ~~A semi-annual summary of the information to document compliance with Condition D.1.2 in any period when No. 2 fuel oil was combusted~~ **The natural gas boiler certification for boiler EB** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Comment 4: The operations at the Essex Group - Fort Wayne facility sometimes require that the coatings used in the wire coating machines/ovens be changed in response to customer demand and changes in market conditions. Please clarify IDEM policy regarding changes in coatings.

IDEM Response to Comment 4: A source may make adjustments in coating formulations in response to customer demand. Notifying IDEM and getting pre-approval is required when the change would trigger any applicable requirements, including the source modification requirement in 326 IAC 2-7-10.5. For the ovens that are subject to 326 IAC 8-2-8 (Ovens 52, 65 and 66), the emissions of VOC must be kept below the limit for equivalent emissions, expressed as lbs VOC per gallon of coating solids. Although not required for all of the ovens at this source, it is a good practice to keep records of the coating formulation data for each oven group, stack test results for each oven group, and calculations for each oven group that show that each oven group is in compliance with the applicable regulations.

Comment 5: Essex Group - Fort Wayne is listed as a major source under Prevention of Significant Deterioration source, defined as having a potential to emit of VOC greater than 250 tons per year. Reported actual VOC emissions at Essex Group - Fort Wayne are typically less than 100 tons per year. Essex Group - Fort Wayne operates external oxidizers for ovens 53 through 62, in contrast to the internal integral oxidizers for ovens 52, 65, and 66. Since the performance of the external oxidizers is being mandated pursuant to 40 CFR 63, Subpart M, Essex Group - Fort Wayne suggests that potential to emit for the oxidizers should be measured downstream of the oxidizers. Since the "PSD Major" status both limits freedom of expansion at this plant, as well as raises the 'public profile' of the facility, Essex Group - Fort Wayne requests that the determination of PSD status for this plant be reconsidered.

IDEM Response to Comment 5: Allen County was designated by EPA as a nonattainment area for the 8-hour ozone standard, effective on June 15, 2004. In determining the PSD and Emission Offset status of a source, IDEM considers the potential emissions before controls for those facilities whose emissions are not limited by federally enforceable controls and the allowable emissions for those facilities whose potential to emit is limited by federally enforceable controls. In order for Essex Group - Fort Wayne to be a minor source under Emission Offset, this source would need to take federally enforceable limits such that emissions of VOC were limited to less than 100 tons per year. This would require VOC input limits, required control efficiencies, control efficiency testing, continuous temperature monitoring, recordkeeping and reporting for all ovens at the source, as well as recordkeeping for all other VOC inputs at the source.

The current applicable requirements in the permit do not limit the absolute amount of VOC that is emitted by the emission units at the source.

Comment 6: Essex Group - Fort Wayne requests that IDEM clarify the requirements for submittal of raw data on oven temperature and SSM events. Should copies of the raw data on oven temperature be included with the semi-annual compliance reports, along with the rolling twelve month calculations of lbs HAP vs. gal solids.

IDEM Response to Comment 6: Condition D.2.8(b) (formerly D.3.9(b)) requires the Permittee to keep records of the temperature measurements made on ovens 52, 65, and 66. The source is required under 40 CFR 63.6380(b)(3) to limit organic HAP emissions to no more than 0.12 kg (1.0 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period. Pursuant to 40 CFR 63.3920 (a)(2), "the source must report all deviations as defined in Subpart M MMM in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report." The requirements for reporting of deviations and Startup, Shutdown and Malfunction events is specified in 40 CFR 63.3920(a)(7), and 40 CFR 63.6920(c). The Permittee is required to submit the raw temperature data in either the semiannual report or the SSM report.

Comment 7: In Condition A.3(e), the word "oven" should be replaced with the word "machine".

IDEM Response to Comment 7: The permit has been corrected as follows:

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

This stationary sources consists of the following emission units and pollution control devices.

...

Magnet Wire Coating Plant

...

- (e) Three (3) wire coating ~~ovens~~ **machines**, identified as emission units 35, 36 and 37, constructed after July 1, 1990, with a maximum capacity of 172.39 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-2.

Comment 8: In Condition C.7 - Performance Testing, IDEM requires that a test protocol be submitted thirty-five (35) days prior to testing, but the MACT (40 CFR 63, Subpart M MMM) requires that a test protocol be submitted sixty (60) days prior to testing. Please clarify.

IDEM Response to Comment 8: The IDEM regulations stated in Condition C.7 - Performance Testing are standard requirements for all sources other than those regulated by 40 CFR 63. Since the federal requirement in 40 CFR 63, Subpart M MMM is more stringent, the Permittee shall comply with the more stringent requirement. The testing conditions for emission units regulated by 40 CFR 63, Subpart M MMM are allowed 60 days as shown in Condition D.2.10 (formerly D.3.12). Other conditions not required by 40 CFR 63, Subpart M MMM will be tested according to 326 IAC 3-6. No changes have been made as a result of this comment.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified, if applicable, to reflect these changes.

1. The requirement to notify IDEM of any change that would result in an increase in potential to emit is already contained in Conditions B.18 and B.21. Conditions D.1.1 and D.3.1 have been deleted. Since this was the only condition in Section D.1, IDEM has removed these emission units from

Section D.1. The subsequent Sections and Conditions have been renumbered. The emission units formerly listed in Section D.1 have been re-numbered and remain in the permit in Section A.3. The permit has been changed as follows. Note that the revisions shown below include other changes that are discussed elsewhere in this addendum.

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

This stationary sources consists of the following emission units and pollution control devices.

Chemical Processing Plant

- ~~(a) Two (2) 4000 gallon hot oil heated reactors with fume scrubbers, agitator condenser and distillation column identified as emission units R-1 and R-2, and constructed in 1973 and 1981, respectively.~~
- ~~(b) Seven (7) jacketed mix kettles, all constructed after January 1, 1980 and identified as follows:
 - ~~(1) Two (2) 2000 gallon jacketed mix kettles equipped with agitator and condenser, identified as emission units K-1 and K-2, and constructed prior to 1982.~~
 - ~~(2) One (1) 1000 gallon jacketed mix kettle equipped with agitator and condenser, identified as K-3, and constructed prior to 1982.~~
 - ~~(3) One (1) 4000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-4, replaced in 2001.~~
 - ~~(4) One (1) 5000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-5, and constructed in 1990.~~
 - ~~(5) Two (2) 10000 gallon jacketed kettles each equipped with an agitator and a condenser, identified as emission units K-6 and K-7, constructed in 1973 and 1981, respectively.~~~~
- ~~(c) Two 16.74 MMBtu per hour boilers, identified as follows:
 - ~~(4 a) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit EB, constructed in 1994, and exhausting to stack SCB. This boiler is equipped with a burner to use No. 2 fuel oil in case of an emergency to prevent a total shutdown.~~
 - ~~(2 b) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit WB, constructed in 1994, and exhausting to stack SCB.~~~~
- (c) Two (2) 4000 gallon hot oil heated reactors with fume scrubbers, agitator condenser and distillation column identified as emission units R-1 and R-2, and constructed in 1973 and 1981, respectively.**
- (d) Seven (7) jacketed mix kettles, all constructed after January 1, 1980 and identified as follows:
 - (1) Two (2) 2000 gallon jacketed mix kettles equipped with agitator and condenser, identified as emission units K-1 and K-2, and constructed prior to 1982.**
 - (2) One (1) 1000 gallon jacketed mix kettle equipped with agitator and condenser, identified as K-3, and constructed prior to 1982.****

- (3) **One (1) 4000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-4, replaced in 2001.**
- (4) **One (1) 5000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-5, and constructed in 1990.**
- (5) **Two (2) 10000 gallon jacketed kettles each equipped with an agitator and a condenser, identified as emission units K-6 and K-7, constructed in 1973 and 1981, respectively.**

SECTION D.1

FACILITY OPERATION CONDITIONS

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

Chemical Processing Plant

- ~~(a) Two (2) 4000 gallon hot oil heated reactors with fume scrubbers, agitator condenser and distillation column identified as emission units R-1 and R-2, and constructed in 1973 and 1981, respectively.~~
- ~~(b) Seven (7) jacketed mix kettles, all constructed after January 1, 1980 and identified as follows:
 - ~~(1) Two (2) 2000 gallon jacketed mix kettles equipped with agitator and condenser, identified as emission units K-1 and K-2, and constructed prior to 1982.~~
 - ~~(2) One (1) 1000 gallon jacketed mix kettle equipped with agitator and condenser, identified as K-3, and constructed prior to 1982.~~
 - ~~(3) One (1) 4000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-4, replaced in 2001.~~
 - ~~(4) One (1) 5000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-5, and constructed in 1990.~~
 - ~~(5) Two (2) 10000 gallon jacketed kettles each equipped with an agitator and a condenser, identified as emission units K-6 and K-7, constructed in 1973 and 1981, respectively.~~~~
- (a) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit EB, constructed in 1994, and exhausting to stack SCB. This boiler is equipped with a burner to use No. 2 fuel oil in case of an emergency to prevent a total shutdown.**
- (b) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit WB, constructed in 1994, and exhausting to stack SCB.**

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

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

~~D.1.1 Volatile Organic Compounds~~

~~Pursuant to T003-7654-00269, issued September 30, 1999, any change or modification which may increase the VOC potential emissions from K-1, K-2, K-3, K-4, K-5, K-6, and K-7 to greater than 25 tons per year shall require prior approval from IDEM, OAQ, before such change may occur.~~

~~D.2.1~~ **D.1.1** General Provisions Relating to NSPS and NESHAP [326 IAC 12-1] [326 IAC 20-1] [40 CFR 60, Subpart A] [40 CFR 63, Subpart A]

- ~~D.2.2~~ **D.1.2** Sulfur Dioxide (SO₂)~~[326 IAC 7-1.1-1][326 IAC 12-4]~~**[326 IAC 12]**[40 CFR 60, Subpart Dc]
- ~~D.2.3~~ **D.1.3** Particulate Matter (PM) [326 IAC 6-2-4]
- ~~D.2.4~~ **D.1.4** Preventive Maintenance Plan [326 IAC 2-7-5(13)]
- ~~D.2.5~~ **D.1.5** Natural Gas
- ~~D.2.6~~ **D.1.6** Sulfur Dioxide Emissions and Sulfur Content
- ~~D.2.7~~ **D.1.7** Visible Emissions Notations
- ~~D.2.8~~ **D.1.8** Record Keeping Requirements [326 IAC 12] [40 CFR 60, Subpart Dc]
- ~~D.2.9~~ **D.1.9** Reporting Requirements

SECTION D.2 FACILITY OPERATION CONDITIONS

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

~~Chemical Processing Plant~~

~~(e) Two 16.74 MMBtu per hour boilers, identified as follows:~~

~~(1) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit EB, constructed in 1994, and exhausting to stack SCB. This boiler is equipped with a burner to use No. 2 fuel oil in case of an emergency to prevent a total shutdown.~~

~~(2) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit WB, constructed in 1994, and exhausting to stack SCB.~~

Magnet Wire Coating Plant

(a) One (1) wire enameling oven with an integral internal thermal oxidizer, identified as emission unit 52, constructed in 1996, with a maximum capacity of 531 pounds of wire per hour, with emissions exhausting at stack S52.

(b) The following ten (10) wire enameling ovens with add-on thermal incinerators for control. After production, a wire lube is applied to the enameled wire, with a combined maximum total usage of 0.4 pounds per hour for all ten (10) ovens.

(1) Five (5) wire enameling ovens, identified as emission units 53, 54, 55, 56 and 57, constructed in 1958, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the west incinerator identified as SWI.

(2) Three (3) wire enameling ovens, identified as emission units 58, 59 and 60, constructed in 1962, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.

(3) Two (2) wire enameling ovens, identified as emission units 61 and 62, constructed in 1978, with a maximum capacity of 156.49 pounds of aluminum wire per hour each or a maximum capacity of 398.75 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI. After production, a wire lube is applied to the enameled wire, with a maximum usage of 0.2 pounds per hour for each oven.

(c) Two (2) wire enameling ovens with an integral internal thermal oxidizer, identified as emission units 65 and 66, constructed in 1997, with a maximum capacity of 891 pounds of copper/aluminum wire per hour each, with emissions exhausting at stacks S65 and S66, respectively.

(d) Three (3) wire coating machines, identified as emission units 24, 25 and 26, constructed in 1996, with a maximum capacity of 272 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-1.

(e) Three (3) wire coating machines, identified as emission units 35, 36 and 37, constructed in the 1980's, with a maximum capacity of 172.39 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-2.

D.3.1 D.2.1 Volatile Organic Compound (VOC) Emission Limitations and PSD Minor Modification Limit [326 IAC 8-2-8] [326 IAC 2-2]

~~D.3.2 Volatile Organic Compound (VOC)~~

~~Pursuant to T003-7654-00269, issued on September 30, 1999, any change or modification which may increase potential emissions from the ten (10) wire enameling ovens, identified as emission units 53, 54, 55, 56, 57, 58, 59, 60, 61 and 62, shall require prior approval from the IDEM, OAQ, before such change may occur.~~

~~D.3.3 D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]~~

~~D.3.4 D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]~~

~~D.3.5 D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~D.3.6 D.2.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]~~

~~D.3.7 D.2.6 Thermal Oxidizer Operation~~

~~D.3.8 D.2.7 Parametric Monitoring~~

~~D.3.9 D.2.8 Record Keeping Requirements~~

~~D.3.10 D.2.9 Reporting Requirements~~

~~D.3.11 D.2.10 General Provisions Relating to NESHAP Subpart M (National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products [326 IAC 20-1] [40 CFR Part 63, Subpart A])~~

~~D.3.12 D.2.11 NESHAP Subpart M Requirements [40 CFR 63, Subpart M]~~

~~D.3.13 D.2.12 One Time Deadlines Relating to NESHAP Subpart M~~

SECTION D.3 FACILITY OPERATION CONDITIONS

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

Magnet Wire Coating Plant

- ~~(a) One (1) wire enameling oven with an integral internal thermal oxidizer, identified as emission unit 52, constructed in 1995, with a maximum capacity of 531 pounds of wire per hour, with emissions exhausting at stack S52.~~
- ~~(b) The following ten (10) wire enameling ovens with add-on thermal incinerators for control. After production, a wire lube is applied to the enameled wire, with a combined maximum total usage of 0.4 pounds per hour for all ten (10) ovens.
 - ~~(1) Five (5) wire enameling ovens, identified as emission units 53, 54, 55, 56 and 57, constructed in 1958, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the west incinerator identified as SWI.~~
 - ~~(2) Three (3) wire enameling ovens, identified as emission units 58, 59 and 60, constructed in 1962, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.~~~~

~~(3) Two (2) wire enameling ovens, identified as emission units 61 and 62, constructed in 1978, with a maximum capacity of 156.49 pounds of aluminum wire per hour each or a maximum capacity of 398.75 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.~~

~~(c) Two (2) wire enameling ovens with an integral internal thermal oxidizer, identified as emission units 65 and 66, constructed in 1997, with a maximum capacity of 891 pounds of copper/aluminum wire per hour each, with emissions exhausting at stacks S65 and S66, respectively.~~

~~(d) Three (3) wire coating machines, identified as emission units 24, 25 and 26, constructed after July 1, 1990, with a maximum capacity of 272 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-1.~~

~~(e) Three (3) wire coating machines, identified as emission units 35, 36 and 37, constructed after July 1, 1990, with a maximum capacity of 172.39 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-2.~~

Insignificant Activities

Magnet Wire Coating Plant

(a) Degreasing operation with a maximum usage of 2533 pounds per year of hydrocarbon. [326 IAC 8-3-2]

(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.4.4 D.3.1~~ 326 IAC 8-3-2 (Cold Cleaner Operations)

SECTION D.4 FACILITY OPERATION CONDITIONS

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

Magnet Wire Coating Plant

~~(a) Degreasing operation with a maximum usage of 2533 pounds per year of hydrocarbon. [326 IAC 8-3-2]~~

(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)]~~

2. The following typographical error in Condition D.2.6 (formerly D.3.7) has been corrected:

~~D.3.7 D.2.6~~ Thermal Oxidizer Operation

...

(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.4.4 D.2.1~~, as approved by IDEM.

3. 326 IAC 9 was approved into the Indiana SIP on November 30, 2004, with an effective date of January 31, 2005. Therefore, 326 IAC 9-1-2 is now federally enforceable. Condition C.4 has been modified as follows:

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

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

4. Conditions D.1.2, D.1.3, and D.1.6 (formerly D.2.2, D.2.3, and D.2.6) have been changed as follows to clarify the intent of these conditions, add the correct rule citations and correct errors:

~~D.2.2~~ **D.1.2** Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] ~~[326 IAC 12-1]~~ **[326 IAC 12]** [40 CFR 60, Subpart Dc]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The SO₂ emissions from ~~boiler EB the one (1) 16.74 MMBtu per hour natural gas fired boiler using No. 2 fuel oil as backup (EB)~~ shall not exceed five tenths (0.5) pounds per million Btu heat input **when burning No. 2 fuel oil**; or
- (b) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur ~~content~~ limit **and SO₂ emission limit apply** ~~applies~~ at all times, including periods of startup, shutdown, and malfunction.

~~D.2.3~~ **D.1.3** Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating), particulate emissions from boilers EB and WB shall be limited to 0.437 pounds PM per MMBtu heat input each based on the following equation:

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

Where:

Pt = pounds of particulate matter emitted per MMBtu heat input.

Q = Total source maximum operating capacity rating in MMBtu per hour = **33.48 MMBtu/hr.**

~~D.2.6~~ **D.1.6** Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance **with the fuel oil sulfur limit and SO₂ emission limit for boiler EB** utilizing one of the following options:

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

5 Condition C.18(c) has been revised to clarify the intent:

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

...

(c) If there is a ~~reasonable possibility that a~~ "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, ~~other than projects at a Clean Unit or at a~~ **source with Plant-wide Applicability Limitation (PAL)**, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1(z)) ~~may result in a significant emissions increase~~ and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

6. The Responsible Official information has been removed for Section A.1.

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 chemical processing and magnet wire coating operation.

Responsible Officials:	Chemical Processing Plant: Chemical Processing Plant Superintendent
	Magnet Wire Plant: Magnet Wire Plant Manager
Source Address:	Chemical Processing Plant: 1700 West Swinney, Fort Wayne, Indiana 46802
	Magnet Wire Plant: 1601 Wall St. Fort Wayne, Indiana 46802
Mailing Address:	Chemical Processing Plant: 1700 West Swinney, Fort Wayne, Indiana 46802
	Magnet Wire Plant: 1601 Wall St. Fort Wayne, Indiana 46802
Source Phone Number:	(260) 461-4000
SIC Code:	3357, 2851
County Location:	Allen
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules Major Source, under Emission Offset Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

7. The language in Condition D.2.1(f) (formerly D.3.1(f)) is not required under 326 IAC 8-1-2 or 326 IAC 8-2-8 and has been deleted from the permit.

~~D.3.1~~ **D.2.1** Volatile Organic Compound (VOC) Emission Limitations **and PSD Minor Modification Limit** [326 IAC 8-2-8] **[326 IAC 2-2]**

...

~~(f) These limits include the evaporation of thinners added to coatings to adjust viscosity, therefore, it is necessary to keep coating and solvent containers covered at all times to prevent solvent evaporation.~~

8. IDEM has reviewed the modification history for this source, to identify any modifications that could have been the same project for PSD purposes and to examine if any violation of the PSD requirements has occurred.

(1) Two (2) modifications were performed in 1996. These two modifications are considered one project for the purpose of PSD because they were performed within a period of one year. The four (4) ovens added in these two modifications (24, 25, 26, and 52) had a

potential to emit of VOC before controls of greater than 40 tons per year. Ovens 24, 25, and 26 have an uncontrolled potential to emit of 8.65 tons per year. Conditions in the initial Part 70 permit (T003-7654-00269, issued September 30, 1999), required the oxidizer for oven 52 to operate at minimum overall efficiency of at least 95.19%, yielding controlled emissions of 5.62 tons per year of VOC for oven 52. This condition effectively limited the PTE from the modifications performed in 1996 to less than 40 tons per year ($8.65 + 5.62 = 14.3$) and rendered the requirements of 326 IAC 2-2 not applicable for the modifications performed in 1996.

- (2) A modification performed in 1997 involving the addition of ovens 65 and 66 had a potential to emit before the controls of greater than 40 tons per year. Conditions in the initial Part 70 permit (T003-7654-00269, issued September 30, 1999), required the oxidizers for ovens 65 and 66 to operate at minimum overall efficiency of at least 94.1%, yielding total controlled emissions of 11.08 tons per year of VOC for ovens 65 and 66. These conditions effectively limited the PTE from this modification to less than 40 tons per year and rendered the requirements of 326 IAC 2-2 not applicable for the modifications performed in 1997.

In order to clarify the intent of these control efficiency requirements, IDEM has added conditions that clarify and specifically state the federally enforceable conditions that apply that ensure that the requirements of 326 IAC 2-2 do not apply. The following conditions have been included in the permit. The cover page of the permit has been revised to show that an NSR requirement has been added in the permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 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. **This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.**

~~D-3-4~~ **D.2.1 Volatile Organic Compound (VOC) Emission Limitations and PSD Minor Modification Limit [326 IAC 8-2-8] [326 IAC 2-2]**

...

- (f) **The VOC emissions from oven 52 shall be less than 31.25 tons per twelve consecutive month period and the internal thermal oxidizer for magnet wire enameling oven 52 shall achieve an overall efficiency of at least ninety-five and nineteen hundredths percent (95.19%). Compliance with this limit, and potential VOC emissions from ovens 24, 25, and 26, shall limit the VOC emissions from the modifications performed in 1996 to less than 40 tons per year and shall render the requirements of 326 IAC 2-2 not applicable to the modifications performed in 1996. VOC Emissions shall be determined by the following equation:**

$$\text{VOC Emissions (tons)} = (\sum (\text{VOC Content } i \text{ (\%)} \times \text{Coating Amount } i \text{ (tons)} \times (1 - \text{Control Efficiency } \% / 100))$$

where:

Control Efficiency % = control efficiency as demonstrated in most recent valid compliance test.

VOC Content i = Percent VOC content of coating i used

Amount i = Usage, in tons of the coating i

- (g) **The VOC emissions from ovens 65 and 66 shall be less than 40 tons per twelve consecutive month period and the internal thermal oxidizer for magnet wire enameling ovens 65 and 66 shall, in aggregate, achieve an overall efficiency of at least ninety-four and one tenths percent (94.1%). Compliance with this limit shall**

render the requirements of 326 IAC 2-2 not applicable to the modification performed in 1997. VOC Emissions shall be determined by the following equation:

$$\text{VOC Emissions (tons)} = (\sum (\text{VOC Content } i \text{ (\%)} \times \text{Coating Amount } i \text{ (tons)} \times (1 - \text{Control Efficiency \%} / 100))$$

where:

Control Efficiency % = control efficiency as demonstrated in most recent valid compliance test.

VOC Content i = Percent VOC content of coating i used

Amount i = Usage, in tons of the coating i

~~D.3.5~~ **D.2.4** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.2.1(b), and ~~(c)~~(d), (f), and (g), within 180 days after issuance of the this Part 70 permit, ~~or within five (5) years of the last valid compliance demonstration,~~ the Permittee shall conduct performance tests on the integral internal thermal oxidizers on the wire enameling ovens identified as 52, 65 and 66 to verify VOC control efficiency as per Conditions D.2.1(b), and ~~(c)~~(d), (f), and (g) for the integral internal thermal oxidizers using methods approved by the Commissioner. ~~Stack testing shall be performed in accordance with 326 IAC 3-6.~~ **Testing shall be conducted in accordance with Section C- Performance Testing.**

~~D.3.10~~ **D.2.9** Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.1(f) and D.2.1(g) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

Part 70 Quarterly Report

Source Name: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269
Facility: Oven 52
Parameter: VOC emissions
Limit: Less than 31.25 tons per twelve (12) consecutive month period

QUARTER :

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: Essex Group, Inc. Fort Wayne Complex
Source Address: 1601 Wall Street, Fort Wayne, Indiana 46802
1700 West Swinney, Fort Wayne, Indiana 46802
Mailing Address: 1601 Wall Street, Fort Wayne, Indiana 46802
Part 70 Permit No.: T003-18362-00269
Facility: Oven 65 and 66
Parameter: VOC emissions
Limit: Less than 40 tons total per twelve (12) consecutive month period

QUARTER :

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.

9. Condition D.2.11 (formerly D.3.12) has been changed to clarify the emission units subject to the NESHAP (40 CFR 63, Subpart M MMMM).

~~D.3.12~~ **D.2.11** NESHAP Subpart M MMMM Requirements [40 CFR 63, Subpart M MMMM]

Pursuant to 40 CFR 63, Subpart M MMMM, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart M MMMM, for the entire **affected source (consisting of magnet wire coating ovens 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 65, 66, 24, 25, 26, 35, 36, and 37, and associated solvent cleaning and coating mixing operations)** beginning January 2, 2007, as follows:

10. Throughout Condition D.2.11 (formerly D.3.12), references to paragraphs of 40 CFR 63, Subpart M MMMM that are not included in this permit, have been deleted as follows:

~~D.3.12~~ **D.2.11** NESHAP Subpart M MMMM Requirements [40 CFR 63, Subpart M MMMM]

§ 63.3881(a)(4) and (b) Am I subject to this subpart?

(a) Miscellaneous metal parts and products include, but are not limited to, metal components of the following types of products as well as the products themselves: motor vehicle parts and accessories, bicycles and sporting goods, recreational vehicles, extruded aluminum structural components, railroad cars, heavy duty trucks, medical equipment, lawn and garden equipment, electronic equipment, magnet wire, steel drums, industrial machinery, metal pipes, and numerous other industrial, household, and consumer products. Except as provided in paragraph (c) of this section, the source category to which this subpart applies is the surface coating of any miscellaneous metal parts or products, as described in paragraph (a)(1) of this section, and it includes the subcategories listed in paragraphs (a)(2) through (6) of this section.

~~(1)–(3)~~ ****

(4) The magnet wire coating subcategory includes surface coating operations that are performed using coatings that meet the definition of magnet wire coatings in §63.3981.

11. Condition D.1.1 has been revised to indicate that the boilers WB and EB are subject to 40 CFR 63, Subpart D D D D D. However, these boilers have no applicable requirements under 40 CFR 63, Subpart D D D D D.

D.1.1 General Provisions Relating to NSPS and NESHAP [326 IAC 12-1] [326 IAC 20-1] [40 CFR 60, Subpart A] [40 CFR 63, Subpart A]

- (a)** The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1-1, apply to boilers EB and WB except when otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b)** **The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to boilers EB and WB except when otherwise specified in 40 CFR Part 63, Subpart A AAAA.**

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Essex Group, Inc. Fort Wayne Complex
Source Location:	1601 Wall Street, Fort Wayne, Indiana 46802 1700 West Swinney, Fort Wayne, Indiana 46802
County:	Allen
SIC Code:	3357, 2851
Operation Permit No.:	T003-7654-00269
Operation Permit Issuance Date:	September 30, 1999
Permit Renewal No.:	T003-18362-00269
Permit Reviewer:	ERG/ST

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Essex Group, Inc. Fort Wayne Complex relating to the operation of a stationary chemical processing and magnet wire coating operation.

Source Definition

Pursuant to T003-7564-00269, issued on September 30, 1999:

This stationary chemical processing and magnet wire coating company consists of two (2) plants:

- (a) Chemical Processing Plant is located at 1700 West Swinney, Fort Wayne, Indiana 46802; and
- (b) Magnet Wire Coating Plant is located at 1601 Wall Street, Fort Wayne, Indiana 46802.

Since the Chemical Processing Plant supports the Magnet Wire Coating Plant, the two (2) plants are located on contiguous properties, have the same SIC codes and are owned by one (1) company, they are considered one (1) source.

Permitted Emission Units and Pollution Control Equipment

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

Chemical Processing Plant

- (a) Two (2) 4000 gallon hot oil heated reactors with fume scrubbers, agitator condenser and distillation column identified as emission units R-1 and R-2, and constructed in 1973 and 1981, respectively.
- (b) Seven (7) jacketed mix kettles, all constructed after January 1, 1980 and identified as follows:
 - (1) Two (2) 2000 gallon jacketed mix kettles equipped with agitator and condenser, identified as emission units K-1 and K-2, and constructed prior to 1982.
 - (2) One (1) 1000 gallon jacketed mix kettle equipped with agitator and condenser, identified as K-3, and constructed prior to 1982.

- (3) One (1) 4000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-4, replaced in 2001.
 - (4) One (1) 5000 gallon jacketed mix kettle equipped with an agitator and a condenser, identified as emission unit K-5, and constructed in 1990.
 - (5) Two (2) 10000 gallon jacketed kettles each equipped with an agitator and a condenser, identified as emission units K-6 and K-7, constructed in 1973 and 1981, respectively.
- (c) Two 16.74 MMBtu per hour boilers, identified as follows:
- (1) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit EB, constructed in 1994, and exhausting to stack SCB. This boiler is equipped with a burner to use No. 2 fuel oil in case of an emergency to prevent a total shutdown.
 - (2) One (1) 16.74 MMBtu per hour natural gas fired firetube boiler, identified as emission unit WB, constructed in 1994, and exhausting to stack SCB.

Magnet Wire Coating Plant

- (a) One (1) wire enameling oven with an integral internal thermal oxidizer, identified as emission unit 52, constructed in 1996, with a maximum capacity of 531 pounds of wire per hour, with emissions exhausting at stack S52.
- (b) The following ten (10) wire enameling ovens with add-on thermal incinerators for control. After production a wire lube is applied to the enameled wire, with a combined maximum total usage of 0.4 pounds per hour for all ten (10) ovens.
 - (1) Five (5) wire enameling ovens, identified as emission units 53, 54, 55, 56 and 57, constructed in 1958, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the west incinerator identified as SWI.
 - (2) Three (3) wire enameling ovens, identified as emission units 58, 59 and 60, constructed in 1962, with a maximum capacity of 157.63 pounds of aluminum wire per hour each or a maximum capacity of 399.2 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.
 - (3) Two (2) wire enameling ovens, identified as emission units 61 and 62, constructed in 1978, with a maximum capacity of 156.49 pounds of aluminum wire per hour each or a maximum capacity of 398.75 pounds of copper wire per hour each, with add-on thermal incinerators for control, with emissions exhausting at the east incinerator identified as SEI.
- (c) Two (2) wire enameling ovens with an integral internal thermal oxidizer, identified as emission units 65 and 66, constructed in 1997, with a maximum capacity of 891 pounds of copper/aluminum wire per hour each, with emissions exhausting at stacks S65 and S66, respectively.
- (d) Three (3) wire coating machines, identified as emission units 24, 25 and 26, constructed in 1996, with a maximum capacity of 272 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-1.
- (e) Three (3) wire coating machines, identified as emission units 35, 36 and 37, constructed in the 1980's, with a maximum capacity of 172.39 pounds of wire per hour each, with no controls, with emissions exhausting at stack SF-2.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

Chemical Processing Plant

- (a) The following storage tanks emitting less than 15 pounds per day of VOC:
 - (1) Seven (7) outside storage tanks, identified as tanks 17 through 23, constructed after July 23, 1984, storing volatile organic liquids and having a maximum storage capacity less than 75 cubic meters.
 - (2) Seventeen (17) outside storage tanks, identified as tanks 1 through 16 and 24, all constructed before July 23, 1984 except for tanks 3 and 9, storing volatile organic liquids and having a maximum storage capacity less than 40 cubic meters.
 - (3) Six (6) inside storage tanks, identified as tanks 25 through 30, all constructed before July 23, 1984 except for tank 25, storing volatile organic liquids and having a maximum storage capacity less than 40 cubic meters
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (c) Natural gas fired combustion sources with heat input equal to or less than ten (10) million Btu per hour.
- (d) Propane or liquefied petroleum gas, or butane fired combustion sources with heat input equal to or less than six (6) million Btu per hour.
- (e) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (f) Closed loop heating and cooling systems.
- (g) Heat exchanger cleaning and repair.
- (h) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks and fluid handling equipment.
- (i) Blowdown for any of the following: slight glass; boiler, compressors, pumps, and cooling towers.
- (j) On-site fire and emergency response training approved by the department.
- (k) A laboratory as defined in 326 IAC 2-7-1(20)(C).

Magnet Wire Coating Plant

- (a) Degreasing operation with a maximum usage of 2533 pounds per year of hydrocarbon. [326 IAC 8-3-2]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

- (d) Natural gas fired combustion sources with heat input equal to or less than ten (10) million Btu per hour.
- (e) Propane or liquefied petroleum gas, or butane fired combustion sources with heat input equal to or less than six (6) million Btu per hour.
- (f) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (g) Filling drums, pails, or other packaging containers with lubricating oils, waxes and greases.
- (h) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (i) Quenching operations used with heat treating processes.
- (j) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (k) Heat exchanger cleaning and repair.
- (l) Process vessel degassing and cleaning to prepare for internal repairs.
- (m) Asbestos abatement projects regulated by 326 IAC 14-10.
- (n) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (o) Equipment used to collect any material that might be released during a malfunction, process upset or spill cleanup, including catch tanks, temporary liquid separators, tanks and fluid handling equipment.
- (p) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (q) On-site fire and emergency response training approved by the department.
- (r) Stationary fire pumps.
- (s) A laboratory as defined in 326 IAC 2-7-1(21)(D).

Existing Approvals

The source has been operating under the Operating Permit T003-7654-00269, issued September 30, 1999 the following prior approvals:

- (a) Administrative Amendment 003-15819-00269, issued May 14, 2002.

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

The following terms and conditions from previous approvals have been revised in this Part 70 permit:

Condition D.8.1 of T003-7654-00269, issued September 30, 1999, has been removed. This condition required that IDEM be notified if any change or modification occurs which may increase the potential emissions to 15 pounds per day or more of volatile organic compounds.

Reason not incorporated: This condition required the Permittee to get approval from IDEM before making any changes to wire coating machines 35, 36, and 37. These requirements are already included in Section C of the permit.

Air Pollution Control Justification as an Integral Part of the Process

The following justification has been incorporated from the previous Technical Support Document for the initial Part 70 permit (T003-7654-00269, issued on September 30, 1999):

The internal thermal oxidizers used in conjunction with Units 52, 65 and 66 shall be considered an integral part of the wire coating process:

- (a) The VOCs will be oxidized using only the process heat supplied by the curing ovens.
- (b) The processes could not operate without the oxidizers, because the oxidizers supply the heat needed for curing the wire coating.
- (c) The oxidizers serve a primary purpose other than pollution control. The oxidizers supply the heat needed for curing the wire coating.

IDEM, OAQ has evaluated the justifications and agreed that the thermal and catalytic oxidation systems on these ovens will be considered as an integral part of the wire coating process. However, the control efficiency of the thermal and catalytic oxidizers is dependent on the oven temperature and on the quality of the catalyst for the catalytic oxidizers. Therefore, the permitting level will be determined using the potential to emit before controls. Operating conditions in the proposed permit will specify that the thermal and catalytic oxidizer shall operate at all times when the wire coating process is in operation.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit renewal be approved. This recommendation is based on the following facts and conditions:

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

An administratively complete Part 70 permit renewal application for the purposes of this review was received on December 18, 2003.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 3).

Potential to Emit of the Source

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

The source was issued a Part 70 Operating Permit (T003-7654-00269) on September 30, 1999. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable after issuance of the original Part 70 operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Reactors and Kettles *	0	0	0	Less than 25	0	0	Not determined
Boilers EB	0.56	0.56	0.04	0.4	6.16	7.33	0.14
Boiler WB	1.73	1.73	37.2	0.18	2.62	10.5	0.14
Oven 52	0.05	0.21	0.02	5.62	2.34	2.79	Greater than 10 tpy for a single HAP. Greater than 25 tpy for a combination of HAPs
Ovens 53 through 62 *				Greater than 250			
Ovens 65 and 66				11.1			
Ovens 24, 25 and 26 **				8.65			
Ovens 35, 36 and 37				7.47			
Total PTE	2.01	2.01	37.2	Greater than 250	6.16	14.2	Greater than 10 tpy for a single HAP. Greater than 25 tpy for a combination of HAPs

* The listed PTE for these units is taken from the Technical Support Document prepared for the source's original Title V permit (T003-7654-00269, issued September 30, 1999).

** Ovens 24, 25 and 26 are limited to actual emissions of less than 15 pounds per day.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	not reported
PM-10	1
SO ₂	2
VOC	75
CO	7
NO _x	13
HAP	not reported

County Attainment Status

The source is located in Allen County.

Pollutant	Status
PM-10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-hour Ozone	Basic Nonattainment
CO	Attainment
Lead	Attainment

- (a) Allen County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for nonattainment new source review. See the State Rule Applicability – Entire Source section.
- (c) Allen County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On August 7, 2006, a temporary emergency rule took effect revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate this change into 326 IAC 1-4-1. A permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring (CAM) are not included in this permit. In order for this rule to apply, a pollutant-specific-emissions-unit at a source that requires a Part 70 or Part 71 permit must meet three criteria for a given pollutant: 1) the unit is subject to an applicable emission limitation or standard for the applicable regulated air pollutant, 2) the unit uses a control device to achieve compliance with any such emission limitation or standard, and 3) the unit has the potential to emit, of the applicable regulated air pollutant, equal or greater than 100 percent of the amount required for a source to be classified as a major source.

Wire coating machines 24 through 26, 35 through 37, and wire coating ovens 53 through 62 are not subject to an applicable emission limitation or standard for the applicable

regulated air pollutant (VOC). Wire coating ovens 52, 65 and 66 do not have the potential to emit, of the applicable regulated air pollutant, equal or greater than 100 percent of the amount required for a source to be classified as a major source.

In addition, pursuant to 40 CFR 64.2(b)(1), any facility subject to the requirements of Section 112 (National Emission Standards for Hazardous Air Pollutants: 40 CFR Part 63) of the Clean Air Act proposed after November 15, 1990 is exempt from 40 CFR Part 64. The wire coating ovens are subject to a NESHAP (40 CFR Part 63, Subpart M - National Emission Standards for Miscellaneous Metal Parts and Products Surface Coating Operations) which was promulgated after November 15, 1990.

The reactor and kettles at this source are not subject to the requirements of 40 CFR Part 64, Compliance Assurance Monitoring (CAM) because they are not subject to an emission limitation or standard for a regulated air pollutant.

- (b) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (326 IAC 12, 40 CFR 60, Subpart K) are not included in the permit. Outside storage tanks 1 through 24 and inside storage tanks 25 through 30 do not store petroleum liquids.
- (c) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 (326 IAC 12, 40 CFR 60, Subpart Ka) are not included in the permit. Outside storage tanks 1 through 24 and inside storage tanks 25 through 30 do not store petroleum liquids.
- (d) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (326 IAC 12, 40 CFR 60, Subpart Kb) are not included in the permit. Outside storage tanks 1 through 24 and inside storage tanks 25 through 30 each have a capacity of less than 75 cubic meters (19,813 gallons).
- (e) The requirements of the New Source Performance Standards for Fossil-Fuel-Fired Steam Generators, (326 IAC 12, 40 CFR 60, Subpart D), are not included in the permit. The two (2) 16.74 MMBtu per hour boilers each have a maximum heat input capacity of less than 250 MMBtu/hr.
- (f) The requirements of the New Source Performance Standards for Electric Utility Steam Generating Units, (326 IAC 12, 40 CFR 60, Subpart Da), are not included in the permit. The two (2) 16.74 MMBtu per hour boilers are not electric utility steam generating units.
- (g) The requirements of the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units, (326 IAC 12, 40 CFR 60, Subpart Db) are not included in the permit. The two (2) 16.74 MMBtu per hour boilers each have a maximum heat input capacity of less than 100 MMBtu/hr.
- (h) The 16.74 MMBtu per hour boiler (boiler WB) is subject to the requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12, 40 CFR 60 Subpart Dc) because the boiler: 1) has a heat input capacity greater than 10 MMBtu/hr but less than 100 MMBtu/hr, 2) was constructed after June 9, 1989, and 3) is defined as a "steam generating unit" pursuant to 40 CFR 60.41c. However, since the boiler combusts only natural gas, it is only subject to certain record keeping requirements in 40 CFR 60.48c. Pursuant to 40 CFR 60.48c(g), the source is required to maintain monthly records of the amount and type of fuel burned
- (i) The 16.74 MMBtu/hr oil-fired boiler (boiler EB) is subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12, 40 CFR 60, Subpart Dc) because the boiler: 1) has a heat input capacity greater than

10 MMBtu/hr but less than 100 MMBtu/hr, 2) was constructed after June 9, 1989, and 3) is defined as a "steam generating unit" pursuant to 40 CFR 60.41c.

Pursuant to 40 CFR Part 60.42c(d), the Permittee shall ensure that:

- (1) SO₂ emissions shall not exceed five-tenths (0.5) pounds per MMBtu heat input; or
- (2) The sulfur content of the fuel oil shall not exceed five tenths percent (0.5%) by weight.

The Permittee shall demonstrate compliance using one of the following methods:

- (1) Providing a certified vendor analysis of the sulfur content of the fuel delivered; or
 - (2) Analyze the oil sample to determine the sulfur content of the fuel oil to demonstrate that the oil contains 0.5 weight percent sulfur or less, using procedures approved by the Commissioner. The Permittee shall sample the oil in the fuel tank after each new shipment of oil is received, as described under 40 CFR 60.46c(d)(2).
- (j) The requirements of the New Source Performance Standards: Surface Coating of Metal Coil (326 IAC 12, 40 CFR 60, Subpart TT) are not included in the permit. The magnet wire coating units coat metal wire. Pursuant to 40 CFR 60.461, metal coil is defined as "a continuous metal strip" (with a thickness) and the magnet wire coated by these facilities is not a strip, but a cylindrical piece (with a diameter).
- (k) The requirements of the National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Coil (326 IAC 20, 40 CFR 63, Subpart SSSS) are not included in the permit. The magnet wire coating units coat metal coil. Pursuant to 40 CFR 63.5110, metal coil is defined as "a continuous metal strip" (with a thickness) and the magnet wire coated by these facilities is not a strip, but a cylindrical piece (with a diameter).
- (l) The requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing and Miscellaneous Coating Manufacturing (326 IAC 20, 40 CFR 63, Subpart FFFF) National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing) are not included in the permit. The chemical processing operations are affiliated operations located at an affected source (the wire coating operations) under 40 CFR 63, Subpart MMMM (NESHAP: Surface Coating of Miscellaneous Metal Parts and Products).
- (m) The two (2) 16.74 MMBtu per hour natural gas-fired firetube boilers (identified as WB and EB) are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. The two (2) 16.74 MMBtu per hour natural gas-fired firetube boilers comprise two (2) existing affected sources for the small gaseous fuel subcategory, as defined by 40 CFR 63.7575, because they are firetube boilers. Pursuant to 40 CFR 63.7506(c), these boiler have no applicable requirements under 40 CFR 63, Subpart A or 40 CFR 63, Subpart DDDDD.
- (n) The requirements of the National Emission Standards for Hazardous Air Pollutants: Halogenated Solvent Cleaning (326 IAC 20, 40 CFR 63, Subpart T) are not included in the permit. The insignificant degreasing operations do not use a solvent containing methylene chloride, perchlorethylene, trichlorethylene, 1,1,1-trichlorethane, carbon tetrachloride, chloroform or any combination of these halogenated HAP solvents in a total concentration greater than five percent (5%) by weight as a cleaning or drying agent.
- (o) This source is subject to the National Emission Standards for Hazardous Air Pollutants for the Surface Coating of Miscellaneous Metal Parts and Products (40 CFR Part 63, Subpart MMMM). The metal parts surface coating operations (identified below) and associated operations are subject to 40 CFR Part 63, Subpart MMMM because they are

located at a major source of HAPs and perform the surface coating of metal parts and products (defined by 40 CFR 63.3981(a)).

Pursuant to 40 CFR 63.3982(b), the affected source is the collection of all of the items listed in (1) through (4) below that are used for surface coating of metal parts and products within each subcategory.

- (1) All coating operations as defined in 40 CFR 63.3981;
- (2) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed;
- (3) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and
- (4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.

The facilities subject to this rule include all of the magnet wire coating ovens, and associated solvent cleaning and coating mixing operations.

The existing affected source associated with the surface coating of metal parts and products is subject to the following sections of 40 CFR Part 63, Subpart M. Non applicable portions of the NESHAP are not included in the permit.

40 CFR 63.3880
40 CFR 63.3881(a)(4) and (b)
40 CFR 63.3882
40 CFR 63.3883(b) and (d)
40 CFR 63.3890(a), (b)(3), (c)(1), and (c)(2)(i – ii)
40 CFR 63.3891(c)
40 CFR 63.3892(b) and (c)
40 CFR 63.3893(b) and (c)
40 CFR 63.3900(a)(2), (b), and (c)
40 CFR 63.3901
40 CFR 63.3910
40 CFR 63.3920
40 CFR 63.3930
40 CFR 63.3931
40 CFR 63.3960
40 CFR 63.3961
40 CFR 63.3963
40 CFR 63.3964
40 CFR 63.3965
40 CFR 63.3966
40 CFR 63.3967(a), (b), and (f)
40 CFR 63.3968(a), (b), (c), (d), and (g)
40 CFR 63.3980
40 CFR 63.3981
Tables 1, 2, 3, and 4 of 40 CFR 63, Subpart M

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63, Subpart M.

State Rule Applicability – Entire Source

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

This source does not belong to one of the 28 listed source categories under PSD, 326 IAC 2-2, with a PSD major threshold of 100 tons per year. Pursuant to T003-7654-00269, issued

September 30, 1999, this source is a major PSD source because the source-wide potential to emit for VOC is greater than 250 tons per year.

This source was constructed prior to 1960. At the time that the PSD rules were promulgated in the late 1970's, this source was an existing major source under PSD.

In the early 1980's, three (3) wire coating machines (35, 36 and 37) were added. The increase in PTE for VOC due to this modification (7.47 tons per year) was less than the PSD significant levels (40 tons per year). Therefore, PSD review was not triggered.

In 1994, the source added two (2) boilers (EB and WB). The increase in PTE for NO_x and CO due to this modification (7.36 tons per year and 6.2 tons per year, respectively) was less than the PSD significant levels (40 tons per year and 100 tons per year, respectively). The increase in PTE of PM, PM₁₀, SO₂, and VOC was each less than one (1) ton per year. Therefore, PSD review was not triggered.

In early 1996, three (3) wire coating machines (24, 25 and 26) were added. The increase in PTE for VOC due to this modification (8.64 tons per year) was less than the PSD significant levels (40 tons per year). Therefore, PSD review was not triggered.

In late 1996, one (1) wire enameling oven (52) was added. The increase in PTE for VOC before controls and limits due to this modification (71.8 tons per year) was greater than the PSD significant levels (40 tons per year). However, the permit contained enforceable provisions requiring a VOC control efficiency of 95.19%. The PTE of VOC after controls (5.62 tons per year) was less than the PSD significant level. Therefore, PSD review was not triggered.

In 1997, two (2) wire enameling ovens (65 and 66) were added. The increase in PTE for VOC before controls and limits due to this modification (188.4 tons per year) was greater than the PSD significant levels (40 tons per year). However, the permit contained enforceable provisions requiring a VOC control efficiency of 94.1%. The PTE of VOC after controls (11.1 tons per year) was less than the PSD significant level. Therefore, PSD review was not triggered.

Throughout the initial Part 70 permit (T003-7654-00269, issued September 30, 1999), a number of conditions required the oxidizers and incinerators to operate at minimum overall efficiencies (at least 95.19% for oven 52 and at least 94.1% for ovens 65 and 66). These conditions were established to address the addition of numerous magnet wire ovens. These conditions also rendered the requirements of 326 IAC 2-2 not applicable for the modifications performed in 1996 and 1997. The following conditions have been included in the permit:

- (a) Pursuant to T003-7654-00269, issued September 30, 1999, the VOC emissions from oven 52 shall be less than 40 tons per twelve consecutive month period and the internal thermal oxidizer for magnet wire enameling oven 52 shall achieve an overall efficiency of at least ninety-five and nineteen hundredths percent (95.19%). Compliance with this limit shall render the requirements of 326 IAC 2-2 not applicable to the modification performed in 1996.
- (b) Pursuant to T003-7654-00269, issued September 30, 1999, the VOC emissions from ovens 65 and 66 shall be less than 40 tons per twelve consecutive month period and the internal thermal oxidizer for magnet wire enameling ovens 65 and 66 shall, in aggregate, achieve an overall efficiency of at least ninety-four and one tenths percent (94.1%). Compliance with this limit shall render the requirements of 326 IAC 2-2 not applicable to the modification performed in 1997.

The potential to emit from these ovens includes the evaporation of thinners being added to coatings to adjust viscosity. The Permittee shall keep coating and solvent containers covered at all times when not in use to reduce solvent evaporation.

The source has not added or modified any emissions units since the previous Title V permit was issued (September 30, 1999) that would result in a significant increase in emissions of any criteria pollutant. This source is a major source under PSD.

326 IAC 2-3 (Emission Offset)

This source is located in Allen County. Allen County was designated as a nonattainment area for the 8-hour ozone standard on June 15, 2004. The potential to emit of VOC of this source, after limits, is greater than 100 tons per year. Therefore, this source is a major source under Emission Offset. Any future modifications that increase VOC or NO_x emissions must be reviewed in accordance with 326 IAC 2-3.

326 IAC 2-4.1-1 (New Source Toxics Control)

This source has not constructed or reconstructed any major sources of HAPs since July 27, 1997. Therefore the requirements of 326 IAC 2-4.1 do not apply.

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially by July 1 beginning in 2005 and every 3 years after. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

The source is subject to 326 IAC 6-4 (Fugitive Dust Emissions) because the source maintains paved and unpaved roads and parking lots with public access. The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

The source is located in Allen County.

- (a) This source is not located in any of the areas listed in 326 IAC 6-5-1(a). Therefore, this source is not subject to the requirements of 326 IAC 6-5.
- (b) This source did not receive all of the necessary preconstruction approvals prior to December 13, 1985. However, the fugitive particulate emissions from the paved and unpaved roads and parking lots are negligible. Pursuant to 326 IAC 6-5-7(d), this source is not subject to the requirements of 326 IAC 6-5.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This source is not located in Lake or Marion Counties. Several facilities at this source are subject to the requirements of 326 IAC 8-2-8. Therefore, the requirements of 326 IAC 8-6 do not apply to this source, or any facilities contained therein.

326 IAC 9 (Carbon Monoxide Emission Limits)

Pursuant to 326 IAC 9 (Carbon Monoxide Emission Limits), the source is subject to this rule because it is a stationary source which emits CO emissions and commenced operation after March 21, 1972. However, under this rule, there are no specific CO emission limitations because the source is not an operation listed under 326 IAC 9-1-2.

326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

This source is not subject to 326 IAC 10-4 because the source does not contain a large affected unit or electricity generating unit as defined in 326 IAC 10-4-1.

State Rule Applicability – Reactors and Kettles

326 IAC 8-1-6 (Volatile Organic Compounds)

These facilities are located in Allen County, were constructed after January 1, 1980 and have a potential to emit VOC less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply to these facilities.

Pursuant to T003-7654-00269, issued September 30, 1999, any change or modification which may increase VOC potential emissions above 25 tons per year from the two (2) 4000 gallon hot oil heated reactors, identified as emission units R-1 and R-2, or the seven (7) jacketed mix kettles identified as K-1, K-2, K-3, K-4, K-5, K-6, and K-7 shall require prior approval from the OAQ to determine applicability requirements, before such change may occur.

State Rule Applicability - Wire Enameling Ovens: 53, 54, 55, 56, 57, 58, 59, 60, 61 and 62.

326 IAC 8-2 (Surface Coating Emissions Limitations)

These ovens are located in Allen County and were constructed prior to January 1, 1980. Therefore, the requirements of 326 IAC 8-2 do not apply to these facilities.

326 IAC 8-1-6 (Volatile Organic Compounds)

Wire enameling ovens 53 through 62 are not subject to the requirements of 326 IAC 8-1-6 because they were each constructed before January 1, 1980.

State Rule Applicability - Wire Enameling Ovens: 52, 65 and 66

326 IAC 8-2-8 (Magnet Wire Coating Operations)

These three (3) wire enameling ovens are magnet wire coating facilities that were constructed after January 1, 1980. Potential VOC emissions from these facilities are greater than 25 tons per year. Therefore, pursuant to 326 IAC 8-2-1, the requirements of 326 IAC 8-2-8 shall apply to these facilities.

Pursuant to 326 IAC 8-2-8 (Magnet Wire Coating Operations), for the electrically insulating varnishes or enamel applied to aluminum or copper wire for use in electrical machinery, the Permittee shall not discharge into the atmosphere any volatile organic compounds in excess of one and seven-tenths (1.7) pounds per gallon, excluding water, delivered to the coating applicator.

This limit includes the evaporation of thinners being added to coatings to adjust viscosity, therefore, it is necessary to keep coating and solvent containers covered at all times to prevent solvent evaporation.

Pursuant to 326 IAC 8-1-2(b), the magnet wire emission unit's VOC emissions shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per pound of coating solids, as allowed in 326 IAC 8-2-8. This equivalency is determined using the following equation:

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

Where:

E = Equivalent emission limit in pounds of VOC per gallon of coating solids, as applied.
L = Applicable emission limit from 326 IAC 8-2-8 in pounds of VOC per gallon of coating.
D = Baseline solvent density of VOC in the coating and shall be equal to seven and thirty-six hundredths (7.36) pounds of VOC per gallon of solvent.

The pounds of VOC per gallon of coating solids shall be limited to less than 2.21, when solvent density of VOC in coating is equivalent to 7.36 pounds per gallon.

Pursuant to 326 IAC 8-1-2(c), the overall efficiency of the internal integral thermal oxidizers and external thermal oxidizers determined by the test methods and procedures specified in 326 IAC 8-1-4 shall be no less than the equivalent overall efficiency (O), which is calculated using the following equation:

$$O = ((V - E) / V) \times 100$$

Where:

V = The 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.

Pursuant to 326 IAC 8-2-8, the integral internal oxidizers on wire enameling ovens 52, 65 and 66 must maintain a minimum overall control efficiency to comply with the requirements of 326 IAC 8-2-8. The specific requirements are as follows:

- (a) Pursuant to T003-7654-00269, issued September 30, 1999, and 326 IAC 8-2-8, the integral internal thermal oxidizer for magnet wire enameling oven 52 shall achieve an overall efficiency of not less than ninety-five and nineteen hundredths percent (95.19%). Compliance with this limit is necessary to insure compliance with the requirements of 326 IAC 8-2-8.
- (b) Pursuant to T003-7654-00269, issued September 30, 1999, and 326 IAC 8-2-8, the integral internal thermal oxidizers for magnet wire enameling ovens 65 and 66 shall achieve an overall efficiency of not less than ninety-four and ten hundredths percent (94.10%). Compliance with this limit is necessary to insure compliance with the requirements of 326 IAC 8-2-8.

Stack tests conducted November 11, 1997 showed that these ovens were in compliance with the emissions limits during these tests. Stack tests shall be repeated within five (5) years from the date of the last valid compliance demonstration.

326 IAC 8-1-6 (New Facilities: General Reduction Requirements)

These wire enameling ovens were constructed after January 1, 1980 and are located in Allen County. However, these ovens are regulated under 326 IAC 8-2-8. Therefore, the requirements of 326 IAC 8-1-6 do not apply to these facilities.

State Rule Applicability - Wire Enameling Machines: 35, 36 and 37.

326 IAC 8-2 (Surface Coating Emissions Limitations)

These three (3) wire enameling machines are magnet wire coating facilities that were constructed after January 1, 1980 and before July 1, 1990. The potential to emit of VOC from these facilities is less than 25 tons per year. Therefore, the requirements of 326 IAC 8-2-8 do not apply to these facilities.

326 IAC 8-1-6 (New Facilities: General Reduction Requirements)

These wire enameling machines were constructed after January 1, 1980, are located in Allen County, and have a potential to emit less than 25 tons per year of VOC. Therefore, the requirements of 326 IAC 8-1-6 do not apply to these facilities.

State Rule Applicability - Wire Enameling Machines: 24, 25 and 26.

326 IAC 8-2-8 (Surface Coating Emissions Limitations)

These three (3) wire enameling machines are magnet wire coating facilities that were constructed after July 1, 1990. These magnet wire coating facilities do not utilize control devices to control VOC emissions. The potential VOC emissions from these facilities is greater than 15 pounds per

day. Therefore, in order to ensure that the actual VOC emissions do not exceed the applicability trigger pursuant to 326 IAC 8-2-1(a)(4), the following limit applies to these facilities:

The VOC emissions from wire coating machines 24, 25, and 26 shall not exceed 15 pounds per day per oven. Compliance with this limit shall render the requirements of 326 IAC 8-2-8 not applicable to these facilities.

326 IAC 8-1-6 (New Facilities: General Reduction Requirements)

These wire enameling machines were constructed after January 1, 1980 and are located in Allen County. However, these facilities are regulated under 326 IAC 8-2-8. Therefore, the requirements of 326 IAC 8-1-6 do not apply to these facilities.

State Rule Applicability – All Wire Enameling Machines and Ovens: 24, 25, 26, 35, 36, 37, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 65 and 66.

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

All of the wire enameling machines and ovens at this source are surface coating facilities. The surface coating material is applied to the wire. Pursuant to 326 IAC 6-3-1(b)(7), Surface Coating processes using flow coating are exempt from 326 IAC 6-3-2. Therefore, the requirements of 326 IAC 6-3-2 do not apply to these facilities.

State Rule Applicability – Natural Gas-Fired Boilers

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

The two (2) 16.74 MMBtu/hr natural gas-fired boilers are sources of indirect heating and were constructed after September 21, 1983. Therefore, they are subject to the requirements of 326 IAC 6-2-4. Pursuant to 326 IAC 6-2-4, the particulate emissions from the two (2) 16.74 MMBtu/hr natural gas fired boilers shall be limited to 0.437 pound per MMBtu of heat input capacity based on the following equation:

$$Pt = 1.09 / Q^{0.26} = 1.09 / 33.5^{0.26} = 0.437 \text{ lb/MMBtu}$$

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.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The 16.74 MMBtu/hr natural gas-fired boiler using No. 2 fuel oil as backup has the potential to emit greater than 25 tons of SO₂ per year. Pursuant to 326 IAC 7-1.1-2, the SO₂ emissions from the 16.74 MMBtu per hour natural gas-fired boiler using No. 2 fuel oil as shall not exceed five tenths (0.5) pounds per million Btu heat input when burning No. 2 fuel oil. This fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.

326 IAC 12 (New Source Performance Standards)

Boilers EB and WB are subject to the recordkeeping requirements of 326 IAC 12 because they each have a heat input capacity greater than 10 MMBtu per hour but less than 100 MMBtu per hour, are approved for construction after June 9, 1989, and are defined as a "steam generating unit" pursuant to 40 CFR 60.41c. Pursuant to this rule, the Permittee shall keep daily records of the fuel burned in the boilers. 326 IAC 12 incorporates by reference a version of 40 CFR 60, Subpart Dc that predates the revisions made to 40 CFR 60, Subpart Dc on February 27, 2006.

State Rule Applicability – Specifically Regulated Insignificant Activities

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

The insignificant brazing and welding equipment consumes less than six hundred twenty-five pounds of rod or wire per day. Pursuant to 326 IAC 6-3-1(b)(9), the insignificant brazing equipment and welding equipment is not subject to 326 IAC 6-3-2.

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

This cold cleaner degreasing facility is located in Allen County, was constructed after January 1, 1980 and is used to perform organic solvent degreasing operations. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the Permittee of a cold cleaning facility shall:

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

326 IAC 12 (New Source Performance Standards)

The seven (7) outdoor storage tanks, identified as tanks 17 through 23, each have a volume less than 75 cubic meters and store volatile organic liquids (VOL). Therefore, the requirements of 326 IAC 12 do not apply to these tanks.

Testing and Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

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

1. The wire coating ovens 52, 65 and 66 have applicable compliance monitoring conditions as specified below:
 - (a) To ensure compliance with 326 IAC 8-2-8, the internal thermal oxidizers shall operate at all times that these wire enameling ovens are in operation. When operating, the oxidizers shall maintain a 3 hour average minimum temperature of 1380 deg F or the 3 hour block average temperature determined in the latest compliance testing to maintain a volatile organic compound (VOC) overall control efficiency of not less than 95.19% for oven 52 and not less than 94.1% for ovens 65 and 66.
 - (b) A continuous monitoring system shall be calibrated, maintained, and operated on the oxidizers for measuring operating temperature of the oxidizers. 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 oxidizers are in operation.

- (c) 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 oxidizers. Continuous monitoring shall mean no less often than once per fifteen (15) minutes.
- (d) The oxidizers 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 oxidizers to at least the required minimum temperature setpoint within 15 minutes. Corrective action must return oxidizer temperature to or above the minimum temperature 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.

The actions described in section (d) above must be in accordance and consistent with Section C.15 - Response to Excursions and Exceedances.

- (e) In order to demonstrate compliance with 326 IAC 8-2-8, within one hundred and eighty (180) days after issuance, or within five (5) years of the last valid compliance demonstration, the Permittee shall conduct performance tests to verify VOC control efficiency for the internal thermal oxidizers using methods approved by the Commissioner. Stack testing shall be performed in accordance with 326 IAC 3-6.
- (f) One representative oven from the three (3) wire enamel ovens shall be tested. 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 years from the date of this valid compliance demonstration.

Emission Unit	Control Device	Timeframe for Testing	Pollutant	Frequency of Testing	Limit or Requirement
Ovens 52, 65, 66	Internal Thermal Oxidizer	Within five (5) years of last valid test	VOC	One oven every five years	326 IAC 8-2-8: 2.21 lbs VOC per gallon of coating solids

These compliance determination and monitoring conditions are necessary because the internal thermal oxidizers must operate properly in order to ensure compliance with 326 IAC 8-2-8.

- 2. The wire coating machines 24, 25, 26, 35, 36, 37, and wire coating ovens 53 through 62 do not have testing, compliance determination requirements or compliance monitoring requirements because there are no applicable emission limitations for these units.

Conclusion

The operation of this stationary chemical processing and magnet wire coating operation shall be subject to the conditions of this Part 70 permit 003-18362-00269.

Company Name: Essex Group, Inc. Fort Wayne Complex
 Address: 1601 Wall Street, Fort Wayne, Indiana 46802 and 1700 West Swinney, Fort Wayne, Indiana 46802
 Title V: T003-18362-00269
 Reviewer: ERG/ST
 Date: February 6, 2007

Oven ID Number	# Ovens	Material	Density (lbs/gal)	Weight Percent VOC (%)	Maximum Usage (gal/unit)	Maximum Throughput (unit/hour)	Type of Thermal Oxidizer	Potential to Emit						
								Before Thermal Oxidizers		Oxidizer Destruction Efficiency (%)	After Thermal Oxidizer			
								PTE VOC per oven (lbs/hr)	PTE VOC per oven (lbs/day)		PTE VOC per oven (lbs/hr)	PTE VOC per oven (lbs/day)	PTE VOC per oven (tons/yr)	PTE VOC all ovens (tons/yr)
52 *	1	Worst Case Coating	8.25	78.1%	0.00459	531	integral	15.7	377	95.19%	0.76	18.1	3.31	3.31
52 *	1	Lube	5.90	97.8%	0.00017	531	no controls	0.52	12.5	0.0%	0.52	12.5	2.28	2.28
52 *	1	Cleaning	7.71	99.8%	0.00004	531	integral	0.16	3.92	95.19%	0.01	0.19	0.03	0.03
53, 54, 55, 56, 57	5	Worst Case Coating	8.72	87.0%	0.102	158	add-on	122	2927	98.5%	1.83	43.9	8.01	40.1
58, 59, 60	3	Worst Case Coating	8.72	87.0%	0.102	158	add-on	122	2927	98.5%	1.83	43.9	8.01	24.0
61, 62	2	Worst Case Coating	8.25	78.1%	0.108	156	add-on	109	2614	98.5%	1.63	39.2	7.15	14.3
65, 66 *	2	Worst Case Coating	8.25	78.3%	0.00371	891	integral	21.4	512	94.10%	1.26	30.2	5.52	11.0
65, 66 *	2	Solvent	8.17	99.8%	0.00005	356	integral	0.15	3.48	94.10%	0.01	0.21	0.04	0.08
24, 25, 26	3	Worst Case Coating	8.20	62.8%	0.00047	272	no controls	0.66	15.8	0.0%	0.66	15.8	2.88	8.65
35, 36, 37	3	Worst Case Coating	8.20	62.8%	0.00064	172	no controls	0.57	13.6	0.0%	0.57	13.6	2.49	7.47

The transfer efficiency for all wire coating operations is 100%. Therefore, there are no particulate emissions.

* Ovens # 52, 65 and 66 utilize integral internal thermal oxidizers to control VOC emissions. PTE of VOC for these ovens is calculated after control.

PTE VOC All OVENS	
Before Controls (tons/yr)	After Controls (tons/yr)
5258	111

Methodology

Before Control:

PTE of VOC per oven (Before Control) (lbs/hr) = Density (lbs/gal) x Weight Percent VOC (%) x Usage (gal/unit) x Maximum Throughput (units/hr)

PTE of VOC per oven (Before Control) (lbs/day) = Density (lbs/gal) x Weight Percent VOC (%) x Usage (gal/unit) x Maximum Throughput (units/hr) x 24 (hrs/day)

PTE of VOC per oven (Before Control) (tons/yr) = Density (lbs/gal) x Weight Percent VOC (%) x Usage (gal/unit) x Maximum Throughput (units/hr) x 8760 (hrs/yr) x 1/2000 (tons/lb)

PTE of VOC all ovens (Before Control) (tons/yr) = SUM (PTE of VOC Before Control for Ovens 53 through 60, 24, 25, 26, 35, 36 and 37) + (PTE of VOC After Control for Ovens 52, 65 and 66)

After Control:

PTE of VOC per oven (After Control) (lbs/hr) = Density (lbs/gal) x Wt. Percent VOC (%) x Usage (gal/unit) x Max. Throughput (units/hr) x (1- Destruction Efficiency(%))

PTE of VOC per oven (After Control) (lbs/day) = Density (lbs/gal) x Wt. Percent VOC (%) x Usage (gal/unit) x Max. Throughput (units/hr) x 24 (hrs/day) x (1- Destruction Efficiency(%))

PTE of VOC per oven (After Control) (tons/yr) = Density (lbs/gal) x Wt. Percent VOC (%) x Usage (gal/unit) x Max. Throughput (units/hr) x (1- Destruction Eff. (%)) x 8760 (hrs/yr) x 1/2000 (ton/lbs)

PTE of VOC all ovens (After Control) (tons/yr) = SUM (PTE of VOC After Control for Ovens 53 through 60, 24, 25, 26, 35, 36 and 37) + (PTE of VOC After Control for Ovens 52, 65 and 66)