



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: February 26, 2008
RE: Copeland Corporation, LLC / 139-23154-00012
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



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

Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Copeland Corporation LLC
500 Conrad C Harcourt Way
Rushville, Indiana 46173**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

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

Operation Permit No.: F139-23154-00012	
Issued by: <i>Original signed by</i> Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: February 26, 2008 Expiration Date: February 26, 2013

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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 2-8-3(b)]

The Permittee owns and operates a stationary refrigeration equipment manufacturing and re-manufacturing plant.

Source Address:	500 Conrad C Harcourt Way, Rushville, Indiana 46173
Mailing Address:	500 Conrad C Harcourt Way, Rushville IN 46173
General Source Phone Number:	(765) 932-2956
SIC Code:	3585
County Location:	Rush
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) natural gas fired boiler, constructed in 1979, rated at 8.369 MMBtu per hour. This boiler uses No. 2 fuel oil as a back up fuel which has a sulfur content of 0.5% by weight.
- (b) One (1) varnish dip tank, constructed in 1993, with a maximum varnish usage rate of 0.75 gallons of varnish per hour (30 units per hour).
- (c) One (1) dip tank, identified as PL-1, constructed in 2004, with a maximum paint usage of 1.35 gallons per hour (75 units per hour), using low VOC coatings, and exhausting through stack PL-1.
- (d) Miscellaneous washing and cleaning operations, including:
 - (1) One (1) Derust Washer, constructed in 1980, with a maximum capacity of 10,000 pounds per hour (110 units per hour).
 - (2) One (1) Assembly Washer, constructed in 1980, with a maximum capacity of 8,800 pounds per hour (53 units per hour).
 - (3) One (1) Rotor Washer, constructed in 1980, with a maximum capacity of 1,100 pounds per hour (4 baskets per hour).
 - (4) One (1) Stator Washer, constructed in 1980, with a maximum capacity of 600 pounds per hour (4 baskets per hour).
 - (5) One (1) Phosphate Washer, constructed in 1981, with a maximum capacity of 45,000 pounds per hour (75 units per hour).

- (6) One (1) OEM Washer, constructed in 2007, with a maximum capacity of 4,150 pounds per hour (28 baskets per hour).

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

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than 10 MMBtu/hr:
 - (1) One (1) natural gas fired burn-off oven, constructed in 1980, and rated for 0.6 MMBtu/hr.
 - (2) One (1) natural gas fired evaporator, constructed in 2000, and rated for 0.75 MMBtu/hr.
 - (3) One (1) natural gas-fired drying oven, identified as OV-1, constructed in 2004, with a maximum heat input capacity of 1.0 MMBtu/hr, a maximum combustible content of 40 pounds per hour, and exhausting through stack OV-1.
- (b) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs including: One (1) touch-up spray paint booth, identified as PSB-1, constructed in 2004, with a maximum coating usage less than 5 gallons per day, using air atomized spray application method, controlled by dry filters, and exhausting through stack PSB-1.
- (c) Degreasing operations that do not exceed 145 gallons per 12 months and were constructed before January 1, 1980.
- (d) Closed loop heating and cooling systems, constructed in 1980.
- (e) Paved and unpaved roads and parking lots with public areas [326 IAC 6-4].
- (f) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling towers.
- (g) Grinding and machining operations meeting the definition of "insignificant grinding and machining operations" specified in 326 IAC 2-7-1(21)(G)(xxiii). The operations including scraping, shot-blasting, cross-boring, honing, machining controlled by five (5) Torit and four (4) transmatic dust collectors.

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F139-23154-00012, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

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

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

B.5 Severability [326 IAC 2-8-4(4)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

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

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

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

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

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

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

B.12 Emergency Provisions [326 IAC 2-8-12]

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

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

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

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

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

- (a) All terms and conditions of permits established prior to F139-23154-00012 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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

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

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

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

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

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

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

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

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

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)

77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

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

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

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

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (2) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

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

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

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

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

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

C.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 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

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

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

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

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

C.15 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

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

C.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas fired boiler, constructed in 1979, rated at 8.369 MMBtu per hour. This boiler uses No. 2 fuel oil as a back up fuel which has a sulfur content of 0.5% by weight.

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

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

D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(e) (Emission limitations for facilities specified in 326 IAC 6-2-1(c)), the particulate matter (PM) from the natural gas fired boiler shall be limited to 0.60 lb/MMBtu.

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

D.1.2 Visible Emissions Notations

- (a) Daily visible emission notations of the boiler stack exhaust shall be performed during normal daylight operations while combusting No. 2 fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) 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 Requirements [326 IAC 2-8-4(3)]

D.1.3 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records of daily visible emission notations of the boiler stack exhaust while combusting No. 2 fuel oil. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) varnish dip tank, constructed in 1993, with a maximum varnish usage rate of 0.75 gallons of varnish per hour (30 units per hour).
- (c) One (1) dip tank, identified as PL-1, constructed in 2004, with a maximum paint usage of 1.35 gallons per hour (75 units per hour), using low VOC coatings, and exhausting through stack PL-1.
- (d) Miscellaneous washing and cleaning operations, including:
 - (1) One (1) Derust Washer, constructed in 1980, with a maximum capacity of 10,000 pounds per hour (110 units per hour).
 - (2) One (1) Assembly Washer, constructed in 1980, with a maximum capacity of 8,800 pounds per hour (53 units per hour).
 - (3) One (1) Rotor Washer, constructed in 1980, with a maximum capacity of 1,100 pounds per hour (4 baskets per hour).
 - (4) One (1) Stator Washer, constructed in 1980, with a maximum capacity of 600 pounds per hour (4 baskets per hour).
 - (5) One (1) Phosphate Washer, constructed in 1981, with a maximum capacity of 45,000 pounds per hour (75 units per hour).
 - (6) One (1) OEM Washer, constructed in 2007, with a maximum capacity of 4,150 pounds per hour (28 baskets per hour).

Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than 10 MMBtu/hr:
 - (1) One (1) natural gas fired burn-off oven, constructed in 1980, and rated for 0.6 MMBtu/hr.
 - (2) One (1) natural gas fired evaporator, constructed in 2000, and rated for 0.75 MMBtu/hr.
 - (3) One (1) natural gas-fired drying oven, identified as OV-1, constructed in 2004, with a maximum heat input capacity of 1.0 MMBtu/hr, a maximum combustible content of 40 pounds per hour, and exhausting through stack OV-1.
- (b) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs including: One (1) touch-

up spray paint booth, identified as PSB-1, constructed in 2004, with a maximum coating usage less than 5 gallons per day, using air atomized spray application method, controlled by dry filters, and exhausting through stack PSB-1.

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

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

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

Pursuant to 326 IAC 2-8-4, the hazardous air pollutant delivered to paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), and the washing and cleaning operations shall be limited as follows:

- (a) The input of individual HAP to the paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities shall not exceed 9.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The total HAP input to paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities shall not exceed 24.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above limits combined with HAP emissions from the other emission units at the source shall limit source wide individual HAP, and total HAP emissions to less than 10 and 25 tons per year and render 326 IAC 2-7 (Part 70) not applicable.

D.2.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, the burn-off oven shall:

- (a) Consist of primary and secondary chambers or the equivalent;
- (b) Be equipped with a primary burner unless burning wood products;
- (c) Comply with 326 IAC 5-1 and 326 IAC 2;
- (d) Be maintained properly as specified by the manufacturer and approved by the commissioner;
- (e) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;
- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;
- (g) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;
- (h) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard condition corrected to fifty percent (50%) excess air; and
- (i) Not create a nuisance or fire hazard.

If any of the above result, the burning shall be terminated immediately.

D.2.3 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the Permittee shall not allow the discharge into the atmosphere VOC in excess of three and five tenths (3.5) pounds of VOC per gallon of coating excluding water, delivered by the Dip Tank (identified as PL-1) or by the Varnish Dip Tank which apply extreme performance coatings.
- (b) Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment of the Dip Tank (identified as PL-1) or the Varnish Dip Tank during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

D.2.4 Particulate [326 IAC 6-3-2(d)]

In order to render the requirements of 326 IAC 6-3-2(d) (Particulate Emission Limitations for Manufacturing Processes) not applicable, the Permittee shall limit the touch-up spray booth process (PSB-1) uses less than five (5) gallons of coating per day.

Compliance Determination Requirements

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

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.2.1, and D.2.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4

D.2.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

When non-compliant coatings are used in the Varnish Dip Tank compliance with the VOC content limit in condition D.2.3 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis. This volume weighted average shall be determined by the following equation:

$$A = \left[\frac{\sum (C \times U)}{\sum U} \right]$$

Where:

- A = The volume weighted average in pounds VOC per gallon less water as applied;
C = The VOC content of the coating in pounds VOC per gallon less water as applied;
U = The usage rate of the coating in gallons per day.

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

D.2.7 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP and VOC usage limits established in Condition D.2.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The HAP content of each coating material and solvent used.

- (2) The amount of coating material and solvent less water used on monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
 - (3) The total HAP usage for each month; and
 - (4) The weight of HAPs emitted for each compliance period.
- (b) To document compliance with Condition D.2.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC emission limits established in Condition D.2.3. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on daily basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
 - (3) The volume weighted VOC content of the coatings used for each day;
 - (4) The daily cleanup solvent usage; and
 - (5) The total VOC usage for each day.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.8 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.1 and D.2.4 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

Source Name: Copeland Corporation LLC
Source Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
Mailing Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
FESOP Permit No.: F139-23154-00012

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

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

Source Name: Copeland Corporation LLC
Source Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
Mailing Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
FESOP Permit No.: F139-23154-00012

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Copeland Corporation LLC
 Source Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
 Mailing Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
 FESOP Permit No.: F139-23154-00012
 Facility: Paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities
 Parameter: Individual HAP input
 Limit: The input of individual HAP to the paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities shall not exceed 9.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

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

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

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Copeland Corporation LLC
 Source Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
 Mailing Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
 FESOP Permit No.: F139-23154-00012
 Facility: Paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities
 Parameter: Total HAP input
 Limit: The total HAP input to paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities shall not exceed 24.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

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

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

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

Attach a signed certification to complete this report.

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

FESOP Usage Report
(Submit Report Quarterly)

Source Name: Copeland Corporation LLC
Source Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
Mailing Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
FESOP Permit No.: F139-23154-00012
Facility: Touch-up spray booth process (PSB-1)
Parameter: Gallons of coating per day
Limit: The Permittee shall limit the touch-up spray booth process (PSB-1) uses less than five (5) gallons of coating per day.

Month: _____ Year: _____

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

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

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

Attach a signed certification to complete this report.

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

Source Name: Copeland Corporation LLC
 Source Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
 Mailing Address: 500 Conrad C Harcourt Way, Rushville, Indiana 46173
 FESOP Permit No.: F139-23154-00012

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	Copeland Corporation LLC
Source Location:	500 Conrad C Harcourt Way, Rushville, IN 46173
County:	Rush
SIC Code:	3585
Permit Renewal No.:	F139-23154-00012
Permit Reviewer:	ERG/BL

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Copeland Corporation LLC relating to the operation of a refrigeration equipment manufacturing and re-manufacturing plant.

History

On May 31, 2006, Copeland Corporation LLC submitted an application to the OAQ requesting a second renewal of its FESOP permit. Copeland Corporation LLC was issued a FESOP Renewal No. 139-14793-00012 on March 3, 2002.

Permitted Emission Units and Pollution Control Equipment

- (a) One (1) natural gas fired boiler, constructed in 1979, rated at 8.369 MMBtu per hour. This boiler uses No. 2 fuel oil as a back up fuel which has a sulfur content of 0.5% by weight.
- (b) One (1) varnish dip tank, constructed in 1993, with a maximum varnish usage rate of 0.75 gallons of varnish per hour (30 units per hour).
- (c) One (1) dip tank, identified as PL-1, constructed in 2004, with a maximum paint usage of 1.35 gallons per hour (75 units per hour), using low VOC coatings, and exhausting through stack PL-1.
- (d) Miscellaneous washing and cleaning operations, including:
 - (1) One (1) Derust Washer, constructed in 1980, with a maximum capacity of 10,000 pounds per hour (110 units per hour).
 - (2) One (1) Assembly Washer, constructed in 1980, with a maximum capacity of 8,800 pounds per hour (53 units per hour).
 - (3) One (1) Rotor Washer, constructed in 1980, with a maximum capacity of 1,100 pounds per hour (4 baskets per hour).
 - (4) One (1) Stator Washer, constructed in 1980, with a maximum capacity of 600 pounds per hour (4 baskets per hour).
 - (5) One (1) Phosphate Washer, constructed in 1981, with a maximum capacity of 45,000 pounds per hour (75 units per hour).

- (6) One (1) OEM Washer, constructed in 2007, with a maximum capacity of 4,150 pounds per hour (28 baskets per hour).

Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than 10 MMBtu/hr:
 - (1) One (1) natural gas fired burn-off oven, constructed in 1980, and rated for 0.6 MMBtu/hr.
 - (2) One (1) natural gas fired evaporator, constructed in 2000, and rated for 0.75 MMBtu/hr.
 - (3) One (1) natural gas-fired drying oven, identified as OV-1, constructed in 2004, with a maximum heat input capacity of 1.0 MMBtu/hr, a maximum combustible content of 40 pounds per hour, and exhausting through stack OV-1.
- (b) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs including: One (1) touch-up spray paint booth, identified as PSB-1, constructed in 2004, with a maximum coating usage less than 5 gallons per day, using air atomized spray application method, controlled by dry filters, and exhausting through stack PSB-1.
- (c) Degreasing operations that do not exceed 145 gallons per 12 months and were constructed before January 1, 1980.
- (d) Closed loop heating and cooling systems, constructed in 1980.
- (e) Paved and unpaved roads and parking lots with public areas [326 IAC 6-4].
- (f) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling towers.
- (g) Grinding and machining operations meeting the definition of "insignificant grinding and machining operations" specified in 326 IAC 2-7-1(21)(G)(xxiii). The operations including scraping, shot-blasting, cross-boring, honing, machining controlled by five (5) Torit and four (4) transmatic dust collectors.

Existing Approvals

Since the issuance of the FESOP Renewal 139-14793-00012 on March 3, 2002, the source has been operating under the following approvals as well:

Minor Permit Revision No. 139-19164-00012 issued on July 28, 2004.

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

The OEM washer was constructed in 2007. Pursuant to 326 IAC 2-1.1-3, construction of the washer did not result in the source needing to make a transition to a 326 IAC 2-7 (Title V) operating permit and did not have the potential to emit greater than 10 tons/yr of VOC and less than 5 tons/yr of PM and PM10. Therefore, the new source construction requirements in 326 IAC 2-7-10.5 did not apply.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
PL-1	Dip Tank	30	1.25	2,140	Ambient
OV-1	Drying Oven	30	1.25	2,140	100
PSB-1	Spray Booth	30	1.00	2,100	Ambient

Emission Calculations

See Appendix A of this document for detailed emission calculations, pages 1 through 10.

County Attainment Status

The source is located in Rush County

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NOx	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Rush 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 PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone. Rush County has been designated as attainment or unclassifiable for the 8-hour ozone standard. Therefore, VOC emissions and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Rush County has been classified as attainment or unclassifiable in Indiana for PM₁₀, SO₂, NOx, CO, and Lead. Therefore, these emissions were reviewed pursuant to the

requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	1.62
PM10	1.68
SO ₂	18.6
VOC	39.4
CO	3.94
NO _x	6.27

HAPs	tons/year
Xylene	18.6
Glycol Ether	5.29
Total	24.2

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants are less than 100 tons per year.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is greater than ten (10) tons per year. However, the source has agreed to limit their single HAP emissions and total HAP emissions below Title V limits. Therefore, the source will be issued a FESOP

Fugitive Emissions

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

Actual Emissions

No previous emission data has been received from the source.

Potential to Emit After Issuance

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

Process/emission unit	Potential To Emit (tons/year)						HAPs
	PM	PM10	SO ₂	VOC	CO	NO _x	
Varnish Dip Tank	0	0	-	23.5	-	-	single HAP < 9.5
Dip Tank (PL-1)	0	0	-	6.56	-	-	
Paint Booth (PSB-1)	0.43	0.43	-	0.39	-	-	comination of HAPs< 24.5
Washing and Cleaning	0	0	-	8.68	-	-	
Boiler Combustion *	0.86	0.86	18.6	0.20	3.08	5.24	0.07
Insignificant Combustion	0.02	0.08	0.01	0.06	0.86	1.03	0.02
Paint, Burn Off	0.30	0.30	-	-	-	-	0.30
Total Emissions	1.62	1.68	18.6	39.4	3.94	6.27	less than 10 less than 25

"-" Negligable

* To constitute a realistic maximum IDEM has used fuel oil combustion when it resulted in a higher PTE than natural gas combustion.

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

Federal Rule Applicability

The following federal rules are applicable to the source:

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (b) The requirements of the NSPS (40 CFR 60, Subpart Db) Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12) are not included in this permit because the maximum design input capacity of the boiler (8.369 MMBtu/hr) is less than 100 MMBtu/hr.
- (c) The requirements of the NSPS (40 CFR Part 60, Subpart EE) for Surface Coating of Metal Furniture (326 IAC 12) are not included in this permit because this source does not perform surface coating operations to metal furniture.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.
- (d) The requirements of NESHAP (40 CFR Part 63, Subpart T) for halogenated solvent cleaning are not included in this permit because, according to the MSDSs submitted by the permittee, the solvents applied by the degreasing operations do not contain any halogenated HAP specified in 40 CFR 63.460.
- (e) The requirements of NESHAP (40 CFR 63, Subpart M) for Miscellaneous Metal Parts and Products Surface Coating are not included in this permit because the Permittee has limited the HAP emissions from the entire source to less than 10 tons/yr for a single HAP and less than 25 tons/yr for total HAPs.

State Rule Applicability - Entire Source

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

This source was constructed in 1995 and is not in one of the 28 listed source categories. The potential to emit all regulated pollutants was less than 250 tons per year. Therefore, the requirements of 326 IAC 2-2 did not apply to the initial construction of this source.

A Minor Permit Revision was issued July 28, 2004. The source replaced the existing flowcoating paint system with a new dip tank (PL-1) and installed an additional drying oven (OV-1) and one (1) touch-up spray paint booth (PSB-1). This source remains a PSD minor source and the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) are not applicable.

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

Although the surface coating operations (paint booth (PSB-1), varnish dip tank, dip tank (PL-1)) and the burn-off oven were constructed after July, 27, 1997, the source accepted limits for these operations which limited their emissions to less than ten (10) tons per year of a single HAP and less than twenty-five (25) tons per year of a combination of HAPs (see F139-14793-00012, issued on March 7, 2002). Therefore, 326 IAC 2-4.1 does not apply. For the specific limit, please see the FESOP limitations discussed below.

326 IAC 2-6 (Emission Reporting)

This source is located in Rush County and the potential to emit of each criteria pollutant is less than one hundred (100) tons per year. Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake or Porter County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 2-8 (Federally Enforceable State Operating Permit Program)

The potential to emit HAP from the entire source is greater than 10 tons/yr for a single HAP. The potential to emit of each criteria pollutant is less than 100 tons per year. Pursuant to 326 IAC 2-8 and F139-14793-00012, issued on March 7, 2002, the Permittee shall comply with the following:

- (a) The input of individual HAP to the paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities shall not exceed 9.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The total HAP input to paint booth (PSB-1), the varnish dip tank, the dip tank (PL-1), the washing and cleaning operations, and their associated clean-up activities shall not exceed 24.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above limits combined with HAP emissions from the other emission units at the source (burn-off oven and combustion) shall limit source wide individual HAP, and total HAP emissions to less than 10 and 25 tons per year and render 326 IAC 2-7 (Part 70) not applicable.

326 IAC 6-4 (Fugitive Dust Emissions)

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)

This source was constructed after December 13, 1985. The only source of fugitive emissions for this source is from roads. The potential fugitive particulate emissions from roads are negligible. Therefore, 326 IAC 6-5 does not apply.

State Rule Applicability – Boiler (8.369 MMBtu/hr)

326 IAC 6-2-3(a)(Particulate Matter Emission Limitations for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-3(a), boilers existing and in operation before September 12, 1983, shall be limited by the following equation or by 0.6 lbs per MMBtu, whichever is more stringent:

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

Where

C = max ground level concentration (= 50 µm/m3)

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr)

N = number of stacks (1)

a = plume rise factor (0.67)

H = stack height (ft) (29-feet)

According to the information submitted by Copeland, the stack height of the boiler is 29 feet. The emission rate limit established from the equation above equals:

$$Pt = \frac{50 \times 0.67 \times 29}{76.5 \times 8.369^{0.75} \times 1^{0.25}} = 2.58 \text{ lbs/MMBtu}$$

The most stringent PM emission limit for this boiler is 0.6 lbs/MMBtu, therefore the 8.369 MMBtu/hr boiler shall be limited to 0.60 lb/MMBtu.

326 IAC 7-1 (Sulfur Dioxide Emission Limitations)

The 8.369 MMBtu/hr boiler is not subject to the requirements of 326 IAC 7-1, because it has potential and actual emissions of sulfur dioxide less than twenty-five (25) tons per year and ten (10) pounds per hour, respectively.

State Rule Applicability – Varnish Dip Tank

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The varnish dip tank is located in Rush County, was constructed after January 1, 1980 and has the potential to emit VOC less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply to this facility.

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

The varnish dip tank performs the metal coating process and the potential to emit VOC from this tank is greater than 15 lbs/day. Therefore, the VOC content of the coatings applied to this facility shall be limited as follows:

- (a) Three and five tenths (3.5) pounds VOC per gallon of coating, excluding water, delivered to the applicators that apply extreme performance coatings.
- (b) Solvent sprayed from the application equipment during clean-up or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is completed, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

The source will use daily averaging of the coating used in the varnish dip tank in order to comply with this rule.

State Rule Applicability – Dip Tank (PL-1)

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The dip tank (PL-1) is located in Rush County, was constructed after January 1, 1980 and has the potential to emit VOC less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply to this facility.

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

Dip tank (PL-1) performs the metal coating process and the potential to emit VOC from this tank is greater than 15 lbs/day. Therefore, the VOC content of the coatings applied to this facility shall be limited as follows:

- (a) Three and five tenths (3.5) pounds VOC per gallon of coating, excluding water, delivered to the applicators that apply extreme performance coatings.
- (b) Solvent sprayed from the application equipment during clean-up or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is completed, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the Permittee, the VOC content of the coating delivered by the dip tank (PL-1) is in compliance with the requirements above.

State Rule Applicability – Insignificant Combustion

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

Pursuant to 326 IAC 6-3-1(b)(14), the insignificant combustion operations (natural gas fired evaporator, stator salvage ovens, and natural gas-fired drying oven) are exempt from the requirements of 326 IAC 6-3, because the combustion operations have potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

State Rule Applicability – Burn-Off Oven

326 IAC 4-2 (Incinerator Requirements)

The natural gas fired burn-off oven is subject to the requirements of 326 IAC 4-2. The burn-off oven is considered to be an incinerator, as defined by 326 IAC 1-2-34, since the oven burns waste substances. The oven has no secondary combustion chamber, but the afterburner satisfies the requirements of 326 IAC 4-2-2(a)(1).

326 IAC 6-2 (Particulate Emissions from Indirect Heating Units)

The natural gas fired burn-off oven is not subject to the requirements of 326 IAC 6-2, since it is not a source of indirect heating.

State Rule Applicability – Spray Booth (PSB-1)

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

The touch-up spray booth process (PSB-1) uses less than five (5) gallons of coating per day. Pursuant to 326 IAC 6-3-1(b), this manufacturing process is exempt.

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The touch-up spray booth (PSB-1) is located in Rush County, was constructed after January 1, 1980 and has a potential to emit VOC less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply to this facility.

326 IAC 8-2-7 (Large Appliance Coating Operations)

The Permittee only re-manufactures the compressor for refrigeration equipment and no large appliance surface coating operations are performed at this plant. In addition, spray booth PSB-1 was constructed after July 1, 1990 and has actual emissions less than fifteen (15) pounds of VOC per day. Therefore, 326 IAC 8-2-7 does not apply.

State Rule Applicability – Degreasing Operations

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

The degreasing operation was constructed before January 1, 1980. Therefore, 326 IAC 8-3 does not apply to this operation.

State Rule Applicability – Washing and Cleaning Operations

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The washing and cleaning operations are located in Rush 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.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

The provisions of 326 IAC 8-3 apply only to the following three (3) specific types of degreasers: cold cleaners, open top vapor degreasers, and conveyORIZED degreasers. The washing and cleaning operations (Derust Washer, Assembly Washer, Rotor Washer, Stator Washer, Phosphate Washer, OEM Washer) cannot be categorized into one of these three types of degreasers. Therefore this source is not subject to the provisions of 326 IAC 8-3.

Compliance Determination and Monitoring Requirements

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

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

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
8.369 MMBtu/hr boiler	Visible Emissions, While combusting No. 2 Fuel Oil	Daily	Normal-Abnormal	Response Steps

These monitoring conditions are necessary to ensure the boiler is operating properly and to ensure compliance with 326 IAC 6-2-3 (Particulate emission limitations for sources of indirect heating) and 326 IAC 2-8 (FESOP).

Recommendation

The staff recommends to the Commissioner that the FESOP 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 application for the purposes of this review was received on May 31, 2006.

Conclusion

The operation of this refrigeration re-manufacturing plant shall be subject to the conditions of the attached FESOP Renewal No. 139-23154-00012.

**Appendix A: Emissions Calculations
VOC and Particulate
From the Varnish Dip Tank**

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Material	Density (lbs/gal)	Weight % Volatile (Organics)	Gal of Mat. (gal/unit)	Maximum Usage (unit/hr)	Pounds VOC per gallon of coating *	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM (ton/yr)	Transfer Efficiency**
Varnish	8.38	50.0%	0.002	30	4.19	0.29	6.94	1.27	0	100%
Varnish Thinner	7.36	100%	0.023	30	7.36	5.08	122	22.2	0	100%

State Potential Emissions **Totals** **5.37** **129** **23.5** **0**

* The permit includes daily averaging and daily record keeping, because not all varnish complies with 326 IAC 8-2-9.

**Transfer efficiency assumed to be 100%, because none of these materials are spray applied. All materials either brushed, wiped or applied with caulk tube.

Methodology

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum Usage (units/hr)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum Usage (units/hr) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum Usage (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE of PM (tons/yr) = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Organics) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

**Appendix A: Emissions Calculations
HAP Emissions
From One (1) Varnish Dip Tank**

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Material	Density (lb/gal)	Gal of Material (gal/unit)	Max Usage (unit/hr)	Weight % of Xylene	Weight % of Glycol Ethers	PTE of Xylene (lb/hr)	PTE of Glycol Ethers (lb/hr)	PTE of Xylene (tons/yr)	PTE of Glycol Ethers (tons/yr)
Varnish	8.38	0.0023	30	30.0%	13.0%	0.17	0.08	0.76	0.33
Varnish Thinner	7.36	0.0230	30	80.0%	0%	4.06	0.00	17.8	0.00
Total								18.6	0.33

Total HAPs 18.9

Methodology

PTE of HAPs (tons/yr) = Density (lb/gal) x Gal of Material (gal/unit) x Max Usage (unit/hr) x Weight% of HAP x 8760 hr/year x 1 ton/2000 lbs

**Appendix A: Emission Calculations
VOC and HAP Emissions
From the Dip Tank (PL-1)**

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Material	Density (lbs/gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	*Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	VOC			HAP			
								PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	Weight % of Glycol Ether	PTE of Glycol Ether (tons/yr)	PM Potential (ton/yr)	Transfer Efficiency*
Patriot Black W. R. Enamel	8.42	75.4%	62.3%	13.2%	75	0.018	1.11	1.50	36.0	6.56	9.4%	4.68	0	100%
Total										6.56		4.68	0	100%

Note: Dip coating operation does not generate any particulate emissions.

Methodology

Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE of HAP (tons/yr) = Density (lbs/gal) * Weight % HAP * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

**Appendix A: Emission Calculations
VOC, PM/PM10, and HAP Emissions
From the Touch-up Spray Paint Booth (PSB-1)**

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Material	Density (lbs/gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	*Maximum Usage (gal/unit)	Maximum Throughput (gallons/day)	VOC			PM/PM10			HAP		
								Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	*PTE of PM/PM10 before Control (lbs/hr)	*PTE of PM/PM10 before Control (ton/yr)	**Transfer Efficiency	Weight % of Glycol Ether	PTE of Glycol Ether (tons/yr)
Patriot Black W. R. Enamel	8.42	75.4%	62.3%	13.2%	20	0.004	1.92	1.11	0.09	2.13	0.39	0.10	0.43	40%	9.4%	0.28
Total									0.09		0.39	0.10	0.43			0.28

*Assume all the PM emissions are PM10 emissions.

** Air atomization application is used in this booth. The transfer efficiency is from AP-42, Table 4.2.2.11-1 (AP-42, 10/95).

Methodology

Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE of PM/PM10 before Control (lbs/hr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)

PTE of PM/PM10 before Control (tons/yr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

PTE of HAP (tons/yr) = Density (lbs/gal) * Weight % HAP * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

Appendix A: Emissions Calculations

VOC Emissions

From Miscellaneous Washing and Cleaning Operations

Company Name: Copeland Corporation LLC

Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173

FESOP: 139-23154-00012

Reviewer: ERG/BL

Date: May 9, 2007

Material	Density (lbs/gal)	Weight % VOC	Maximum Usage (gals/hr)	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
SW-200	8.50	5.00%	0.69	0.29	7.04	1.28
Acid Wash CP-80	10.0	0.26%	0.19	0.00	0.12	0.02
B-300L	9.34	0.26%	0.28	0.01	0.16	0.03
SW-110-R	8.50	1.39%	12.6	1.48	35.6	6.49
RP#25	8.58	0.00%	1.43	0.00	0.00	0.00
Prostrip L	11.6	0.00%	3.33	0.00	0.00	0.00
AK-60	7.30	0.00%	0.55	0.00	0.00	0.00
SAC-12	8.80	10.00%	0.22	0.19	4.65	0.85
State Potential Emissions			Totals	1.98	47.6	8.68

Methodology

PTE of VOC (lbs/hr) = Density (lbs/gal) * Weight % VOC * Maximum Usage (gals/hr)

PTE of VOC (lbs/day) = Density (lbs/gal) * Weight % VOC * Maximum Usage (gals/hr) * (24 hr/day)

PTE of VOC (tons/yr) = Density (lbs/gal) * Weight % VOC * Maximum Usage (gals/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

**Appendix A: Emission Calculations
(MMBtu/hr < 100)
Natural Gas Combustion, 8.369 MMBtu/hr Boiler**

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Heat Input Capacity
(MMBtu/hr)
8.37

Potential Throughput
(MMCF/yr)
73.3

	Pollutant						
	PM*	PM10*	SO ₂	NO _x **	VOC	CO	HAP
Emission Factor (lb/MMCF)	1.9	7.6	0.6	100	5.5	84.0	1.89
Potential Emission (tons/yr)	0.07	0.28	0.02	3.67	0.20	3.08	0.07
Potential Emission (lbs/hr)	0.02	0.06	0.01	0.84	0.05	0.70	0.02

*PM10 emission factor is for condensable and filterable PM combined. PM emission factor is for filterable PM only.

**Emission factor for NO_x: Uncontrolled = 100 lb/MMCF.

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF) x 1ton/2,000 lbs

Potential to Emit (lbs/hr) = Potential to Emit (tons/yr) x 2,000lbs/1ton x 1yr/8,760hrs

Appendix A: Emission Calculations
Commercial/Institutional/Residential Combustors (< 100 MMBtu/hr)
8.369 MMBtu/hr Boiler, #2 Fuel Oil (Backup Fuel)

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Heat Input Capacity
(MMBtu/hr)
8.37

Potential Throughput
(kgals/year)
524

S = Weight Sulfur
(%)
0.5

Emission Factor (lb/kgal)	Pollutant					
	PM*	PM10*	SO ₂	NOx	VOC	CO
	3.3	3.3	71 (142.0 S)	20.0	0.34	5.0
Potential Emission (tons/yr)	0.86	0.86	18.6	5.24	0.09	1.31

*PM and PM10 emission factors are condensable and filterable PM10 combined.

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Emission Factor (lb/kgal)	Pollutant					
	Benzene	Toluene	Xylenes	Naphthalene	Formaldehyde	1,1,1-Trichloroethane
	2.14E-04	6.20E-03	1.09E-04	1.13E-03	3.30E-02	2.36E-04
Potential Emission (tons/yr)	5.60E-05	1.62E-03	2.85E-05	2.96E-04	8.64E-03	6.18E-05

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Methodology

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

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

Appendix A: Emission Calculations
Natural Gas Combustion Only
(MMBtu/hr < 100)
From Natural Gas Fired Insignificant Sources (combined)

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)
2.35	20.6

Emission Factor (lb/MMCF)	Pollutant						
	PM*	PM10*	SO ₂	NO _x	VOC	CO	HAP
Potential Emission (tons/yr)	0.02	0.08	0.01	1.03	0.06	0.86	0.02
Potential Emission (lbs/hr)	4.47E-03	0.02	1.41E-03	0.24	0.01	0.20	4.43E-03

Natural gas-fired burn off oven (0.6 MMBtu/hr), natural gas-fired evaporator (0.75 MMBtu/hr), two (2) natural gas-fired stator salvage ovens (0.123 MMBtu/hr), natural gas-fired drying oven (1.0 MMBtu/hr).

*PM10 emission factor is for condensable and filterable PM combined. PM emission factor is for filterable PM only.

**Emission factor for NO_x: Uncontrolled = 100 lb/MMCF.

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

PTE (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Appendix A: Emission Calculations
Burn Off Oven, Paint Stripping Only**

Company Name: Copeland Corporation LLC
Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173
FESOP: 139-23154-00012
Reviewer: ERG/BL
Date: May 9, 2007

Combustible material entering burn-off oven (lbs/hr)	Starved Air Combustion factor for PM/PM10 (lbs/ton combusted)	Potential PM/PM10/HAP Emissions (tons/yr)
40.0	3.43	0.30

The Permittee provided the burn off ovens maximum capacity 40 pounds per hour.

No AP-42 emission factors are available for pyrolysis of applied coatings solids. To constitute a realistic estimation IDEM used a factor from AP-42 - Refuse Combustion (Table 2.1-9). IDEM has assumed that all of the particulate emitted are HAP.

This analysis assumes that all particulate emitted will be a HAP.

Methodology

PM/PM10/HAP Emissions (tons/yr) = Combustible Material (lbs/hr) x 8760 hrs/ 1yr x 1 ton / 2000 lbs x MSTAMWCU Emission Factor (lb/ton combusted) x 1 ton / 2000 lbs

**Appendix A: Emission Calculations
Emission Summary**

Company Name: Copeland Corporation LLC

Address: 500 Conrad C. Harcourt Way, Rushville, IN 46173

FESOP: 139-23154-00012

Reviewer: ERG/BL

Date: May 9, 2007

Process/emission unit	Potential To Emit (tons/year)							
	PM	PM10	SO ₂	VOC	CO	NOx	HAPs	Xylene
Varnish Dip Tank	0	0	-	23.5	-	-	18.9	18.6
Dip Tank (PL-1)	0	0	-	6.56	-	-	4.68	-
Paint Booth (PSB-1)	0.43	0.43	-	0.39	-	-	0.28	-
Washing and Cleaning	-	-	-	8.68	-	-	-	-
Boiler Combustion *	0.86	0.86	18.6	0.20	3.08	5.24	0.07	-
Insignificant Combustion	0.02	0.08	0.01	0.06	0.86	1.03	0.02	-
Paint, Burn Off	0.30	0.30	-	-	-	-	0.30	-
Total	1.62	1.68	18.6	39.4	3.94	6.27	24.2	18.6

Process/emission unit	Potential to Emit After Issuance (tons/year)							
	PM	PM10	SO ₂	VOC	CO	NOx	HAPs	Any Single HAP
Varnish Dip Tank	0	0	-	23.5	-	-	less than 24.5	less than 9.5
Dip Tank	0	0	-	6.56	-	-		
Paint Booth (PSB-1)	0.43	0.43	-	0.39	-	-		
Washing and Cleaning	-	-	-	8.68	-	-	0.07	-
Boiler Combustion *	0.86	0.86	18.6	0.20	3.08	5.24	0.02	-
Insignificant Combustion	0.02	0.08	0.01	0.06	0.86	1.03	0.30	-
Paint, Burn Off	0.30	0.30	-	-	-	-	-	-
Total	1.62	1.68	18.6	39.4	3.94	6.27	less than 25	less than 10

* To constitute a realistic maximum IDEM has used fuel oil combustion when it resulted in a higher PTE than natural gas combustion.