



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 27, 2008

RE: Product Specialties, Inc. / 043-24598-00039

FROM: Matthew Stuckey, 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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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Product Specialties, Inc.
2073 McDonald Avenue
New Albany, Indiana 47150**

(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.: F043-24598-00039	
Issued by: <i>Original document signed by</i> Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 27, 2008 Expiration Date: May 27, 2018

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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 vinyl wall covering manufacturing operation.

Source Address:	2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address:	2073 McDonald Avenue, New Albany, Indiana 47150
General Source Phone Number:	(812) 945-0920
SIC Code:	3081
County Location:	Floyd
Source Location Status:	Nonattainment for PM 2.5 standard Attainment for all other 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) PVC resin powder storage silo, identified as EU-01, with a maximum storage capacity of 78.8 tons, using a baghouse for particulate matter control, and exhausting to stack V1;
- (b) One (1) calcium carbonate (CaCO₃) storage silo, identified as EU-02, with a maximum storage capacity of 61 tons, using a baghouse for particulate matter control, and exhausting to stack V2;
- (c) One (1) plastic film mixing line, identified as EU-05, with a maximum capacity of 1588 pounds per hour, using baghouses for particulate matter control, exhausting to stack V3;
- (d) Two (2) extrusion units, identified as EU-06 and EU-07, each having a limited throughput of 1020 pounds per hour, exhausting to stacks S4 and S5;
- (e) One (1) rotogravure press with two (2) color printing heads (only one head can be used at a time), identified as EU-09, with a maximum coverage of 15 pounds of ink per million square inches (lb/million in²) of PVC sheet, exhausting to stack S7;
- (f) One (1) rotogravure press with four (4) color printing heads, identified as EU-11, with a maximum coverage of 14.4 pounds of ink per million square inches of PVC sheet per head (lb/million in²/head), exhausting to stack S10;
- (g) One (1) rotogravure press with four (4) color printing heads, identified as EU-13, with a maximum coverage of 14.4 pounds of ink per million in² of PVC sheet vinyl per head (lb/million in²/head), exhausting to stack S12 and S13;

- (h) Three (3) laminators, identified as EU-16, EU-14 and EU-12, each having a limited production rate of 4,000,000 yds laminated film/year, exhausting to stacks S16, S14 and S8, respectively; and
- (i) One (1) rotogravure press with six (6) color printing heads, identified as EU-15, with a maximum coverage of 14.4 pounds of ink per million square inches of PVC sheet per head (lb/million in²/head), exhausting to stack S15.

Pursuant to 40 CFR 63, Subpart FFF, the emission units EU-09, EU-11, EU-13, and EU-15 above are considered affected facilities.

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

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

- (a) Natural gas fired combustion sources with the heat input equal to or less than ten (10) million Btu per hour:
 - (1) One (1) natural gas-fired boiler rated at 2.7 MMBtu/hr [326 IAC 6-2-4];
 - (2) One (1) natural gas-fired oven with four (4) 0.75 MMBtu/hr burners for EU-11;
 - (3) Two (2) natural gas-fired indirect heaters rated at 0.75 MMBtu/hr each [326 IAC 6-2-4];
 - (4) Two (2) natural gas-fired dryers rated at 0.304 MMBtu/hr each;
 - (5) One (1) natural gas-fired space heater rated at 0.58 MMBtu/hr;
 - (6) One (1) natural gas-fired indirect heater for EU-13 rated at 2.0 MMBtu/hr [326 IAC 6-2-4];
 - (7) Seven (7) natural gas-fired space heaters rated at 0.09 MMBtu/hr each; and
 - (8) Six (6) natural gas-fired space heaters rated at 0.1 MMBtu/hr each.
- (b) One (1) cold cleaner degreasing operation with a capacity of 20 gallons to clean small parts [326 IAC 8-3-2] [326 IAC 8-3-5][326 IAC 8-3-8];
- (c) VOC/HAP storage containers for lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (d) Equipment relating to manufacturing activities that does not result in HAP emissions including brazing equipment, cutting torches, soldering equipment, and welding equipment;
- (e) Closed loop heating and cooling systems;
- (f) Natural draft cooling towers not regulated under a NESHAP;
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (h) Paved and unpaved roads and parking lots with public access [326 IAC 6-4];
- (i) Blow down for sight glass, boiler, compressors, pumps, and cooling towers.

- (j) Emission units whose potential uncontrolled emissions meet the exemption levels specified in 326 IAC 2-1.1-3(d)(1):
 - (1) Three (3) granulators that chop waste film and recirculate to the mixing line; and
 - (2) One (1) plastisol mixing line.
- (k) One (1) natural gas-fired oven for EU-15 with 6 x 0.75 MMBtu burners.

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, F043-24598-00039, is issued for a fixed term of ten (10) 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 April 15 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 F043-24598-00039 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

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

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

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

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

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

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

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

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

Request for renewal shall be submitted to:

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

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

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

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

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

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

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

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

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

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

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

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

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

and

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

77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

C.7 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 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

C.15 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.16 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.17 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.18 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: Vinyl Wall Covering Manufacturing Operation

- (a) One (1) PVC resin powder storage silo, identified as EU-01, with a maximum storage capacity of 78.8 tons, using a baghouse for particulate matter control, and exhausting to stack V1;
- (b) One (1) calcium carbonate (CaCO_3) storage silo, identified as EU-02, with a maximum storage capacity of 61 tons, using a baghouse for particulate matter control, and exhausting to stack V2;
- (c) One (1) plastic film mixing line, identified as EU-05, with a maximum capacity of 1588 pounds per hour, using baghouses for particulate matter control, exhausting to stack V3;
- (d) Two (2) extrusion units, identified as EU-06 and EU-07, each having a limited throughput of 1020 pounds per hour, exhausting to stacks S4 and S5;
- (e) One (1) rotogravure press with two (2) color printing heads (only one head can be used at a time), identified as EU-09, with a maximum coverage of 15 pounds of ink per million square inches ($\text{lb}/\text{million in}^2$) of PVC sheet, exhausting to stack S7;
- (f) One (1) rotogravure press with four (4) color printing heads, identified as EU-11, with a maximum coverage of 14.4 pounds of ink per million square inches of PVC sheet per head ($\text{lb}/\text{million in}^2/\text{head}$), exhausting to stack S10;
- (g) One (1) rotogravure press with four (4) color printing heads, identified as EU-13, with a maximum coverage of 14.4 pounds of ink per million in^2 of PVC sheet vinyl per head ($\text{lb}/\text{million in}^2/\text{head}$), exhausting to stack S12 and S13;
- (h) Three (3) laminators, identified as EU-16, EU-14 and EU-12, each having a limited production rate of 4,000,000 yds laminated film/year, exhausting to stacks S16, S14 and S8, respectively; and
- (i) One (1) rotogravure press with six (6) color printing heads, identified as EU-15, with a maximum coverage of 14.4 pounds of ink per million square inches of PVC sheet per head ($\text{lb}/\text{million in}^2/\text{head}$), exhausting to stack S15.

Pursuant to 40 CFR 63, Subpart FFF, the emission units EU-09, EU-11, EU-13, and EU-15 above are considered affected facilities.

(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 [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the storage silos (EU-01 & EU-02), the mixing operation (EU-05), the extrusion units (EU-06 & EU-07), and the laminating lines (EU-14, EU-12, and EU-16) shall not exceed the following allowable PM emissions when operating at a process weight rate as shown in the table below:

Process Facility	Stack ID	Process Throughput (tons/hr)	Allowable PM Emissions (lbs/hr)
Resin Powder Storage Silo (EU-01)	V1	0.44	2.37
CaCO ₃ Storage Silo (EU-02)	V2	0.29	1.79
Plastic Film Mixing Line (EU-05)	V3	0.794	3.52
Extrusion Unit (EU-06)	S4	0.36	2.07
Extrusion Unit (EU-07)	S5	0.36	2.07
Laminator (EU-14)	S14	0.844	3.66
Laminator (EU-12)	S8	0.844	3.66
Laminator (EU-16)	S16	0.844	3.66

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

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

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-11]

Pursuant to 326 IAC 8-2-11 (Fabric and Vinyl Coating VOC Limitations), the VOC content of the coatings used in the rotogravure presses EU-09, EU-11, EU-13, and EU-15 to completely saturate the substrate shall be limited to 4.8 pounds of VOC per gallon of coating less water delivered to the applicator.

D.1.3 Volatile Organic Compounds [326 IAC 2-8][326 IAC 8-1-6][326 IAC 20][40 CFR 63, Subpart KK]

Pursuant to 326 IAC 2-8, the following facilities shall be limited as follows:

- (a) The total material compounded from extruders EU-06 and EU-07 shall not exceed 12,779,088 pounds per twelve (12) consecutive month period with compliance determined at the end of each month. The emission rate shall not exceed 0.0043 lb VOC/lb of material compounded.
- (b) The total VOC input for the rotogravure presses (identified as EU-09, EU-11, EU-13, and EU-15) shall not exceed 23.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (c) The production rate of laminators EU-14, EU-12, and EU-16 shall each not exceed 4,000,000 yards of film per twelve (12) consecutive month period with compliance determined at the end of each month. The emission rate shall not exceed 0.0065 pounds of VOC per yard of film. Compliance with this limit makes 326 IAC 8-1-6 not applicable.
- (d) The total input of a single HAP to the rotogravure presses (EU-09, EU-11, EU-13, and EU-15) shall not exceed 9 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The total input of a combination of HAPs to the rotogravure presses (EU-09, EU-11, EU-13, and EU-15) shall not exceed 24 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The limits in conditions D.1.3(a) through (c) limit sourcewide VOC emissions to less than one hundred (100) tons per year. The HAP input limits limit sourcewide emissions of single HAPs to less than 10 tons per year and less than 25 tons per year of a combination of HAPs from the entire source. Therefore, the requirements of 326 IAC 2-7 are not applicable.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.5 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP)

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.1.2 and D.1.3 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.1.6 Particulate Control [326 IAC 2-8-5(a)(4)]

In order to comply with D.1.1, the baghouses for PM control shall be in operation and control emissions from the silos (EU-01, and EU-02) and the plastic film mixing line (EU-05) at all times that the plastic film manufacturing is in operation.

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the plastic film mixing line (EU-05) baghouse stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations from each storage silo (EU-01 and EU-02) baghouse stack exhaust shall be performed during loading operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (c) 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.
- (d) 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.
- (e) 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.
- (f) If abnormal emissions are observed, the Permittee shall take reasonable 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.

D.1.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse associated with the plastic film mixing line (EU-05), at least once per day when any plastic film line is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation

from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.9 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.1.10 Record Keeping Requirement

- (a) To document compliance with Condition D.1.7, the Permittee shall maintain records of the visible emission notations of each plastic film line (EU-05) stack exhaust once per day and the visible emission notations performed during loading operations of the silos (EU-01 and EU-02). 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 (i.e., the process did not operate that day).
- (b) To document compliance with Condition D.1.8, the Permittee shall maintain records of the pressure drop during normal operation for the plastic film mixing line (EU-05) once per day. The Permittee shall include in its daily record when a pressure drop notation is not taken and the reason for the lack of visible emission notation (i.e., the process did not operate that day).
- (c) To document compliance with VOC and HAPs content and usage limits in Conditions D.1.2 and D.1.3 the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAPs usage limits and/or the VOC and HAPs emission limits established in Conditions D.1.2 and D.1.3.

- (1) The amount of VOC and HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (A) A log of the dates of use;
 - (B) The weighted average VOC content of the coatings used for each month;
 - (C) The cleanup solvent usage for each month;
 - (D) The total VOC and HAP usage for each month; and
 - (E) The weight of VOCs and HAPs emitted for each compliance period.
 - (2) The total material compounded by the extruders (identified as EU-06 and EU-07) per month.
 - (3) The yards of film produced by the laminators (identified as EU-12, EU-14, and EU-16) per month.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, 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.

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

D.1.12 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to printing operations EU-09, EU-11, EU-13, and EU-15 except when otherwise specified in 40 CFR Part 60, Subpart FFF.

D.1.13 NSPS Subpart FFF Requirements [326 IAC 12] [40 CFR 60, Subpart FFF]

Pursuant to 40 CFR 60, Subpart FFF, the permittee shall comply with the provisions of 40 CFR 60.580 for the printing operations EU-09, EU-11, EU-13, and EU-15, as specified as follows:

§ 60.580 *Applicability and designation of affected facility.*

- (a) The affected facility to which the provisions of this subpart apply is each rotogravure printing line used to print or coat flexible vinyl or urethane products.
- (b) This subpart applies to any affected facility which begins construction, modification, or reconstruction after January 18, 1983.
- (c) For facilities controlled by a solvent recovery emission control device, the provisions of §60.584(a) requiring monitoring of operations will not apply until EPA has promulgated performance specifications under appendix B for the continuous monitoring system. After the promulgation of performance specifications, these provisions will apply to each affected facility under paragraph (b) of this section. Facilities controlled by a solvent recovery emission control

device that become subject to the standard prior to promulgation of performance specifications must conduct performance tests in accordance with §60.13(b) after performance specifications are promulgated.

§ 60.581 Definitions and symbols.

(a) All terms used in this subpart, not defined below, are given the same meaning as in the Act or in subpart A of this part.

Emission control device means any solvent recovery or solvent destruction device used to control volatile organic compounds (VOC) emissions from flexible vinyl and urethane rotogravure printing lines.

Emission control system means the combination of an emission control device and a vapor capture system for the purpose of reducing VOC emissions from flexible vinyl and urethane rotogravure printing lines.

Flexible vinyl and urethane products mean those products, except for resilient floor coverings (1977 Standard Industry Code 3996) and flexible packaging, that are more than 50 micrometers (0.002 inches) thick, and that consist of or contain a vinyl or urethane sheet or a vinyl or urethane coated web.

Gravure cylinder means a plated cylinder with a printing image consisting of minute cells or indentations, specifically engraved or etched into the cylinder's surface to hold ink when continuously revolved through a fountain of ink.

Ink means any mixture of ink, coating solids, organic solvents including dilution solvent, and water that is applied to the web of flexible vinyl or urethane on a rotogravure printing line.

Ink solids means the solids content of an ink as determined by Method 24, ink manufacturer's formulation data, or plant blending records.

Inventory system means a method of physically accounting for the quantity of ink, solvent, and solids used at one or more affected facilities during a time period. The system is based on plant purchase or inventory records.

Plant blending records means those records which document the weight fraction of organic solvents and solids used in the formulation or preparation of inks at the vinyl or urethane printing plant where they are used.

Rotogravure print station means any device designed to print or coat inks on one side of a continuous web or substrate using the intaglio printing process with a gravure cylinder.

Rotogravure printing line means any number of rotogravure print stations and associated dryers capable of printing or coating simultaneously on the same continuous vinyl or urethane web or substrate, which is fed from a continuous roll.

Vapor capture system means any device or combination of devices designed to contain, collect, and route organic solvent vapors emitted from the flexible vinyl or urethane rotogravure printing line.

(b) All symbols used in this subpart not defined below are given the same meaning as in the Act or in subpart A of this part.

a=the gas stream vents exiting the emission control device.

b=the gas stream vents entering the emission control device.

f=the gas stream vents which are not directed to an emission control device.

C_{aj} =the concentration of VOC in each gas stream (j) for the time period exiting the emission control device, in parts per million by volume.

C_{bi} =the concentration of VOC in each gas stream (i) for the time period entering the emission control device, in parts per million by volume.

C_{fk} =the concentration of VOC in each gas stream (k) for the time period which is not directed to an emission control device, in parts per million by volume.

G=the weighted average mass of VOC per mass of ink solids applied, in kilograms per kilogram.

M_{ci} =the total mass of each ink (i) applied in the time period as determined from plant records, in kilograms.

M_{dj} =the total mass of each dilution solvent (j) added at the print line in the time period determined from plant records, in kilograms.

Q_{aj} =the volumetric flow rate of each effluent gas stream (j) exiting the emission control device, in standard cubic meters per hour.

Q_{bi} =the volumetric flow rate of each effluent gas stream (i) entering the emission control device, in standard cubic meters per hour.

Q_{fk} =the volumetric flow rate of each effluent gas stream (k) not directed to an emission control device, in standard cubic meters per hour.

E=the VOC emission reduction efficiency (as a fraction) of the emission control device during performance testing.

F=the VOC emission capture efficiency (as a fraction) of the vapor capture system during performance testing.

W_{oi} =the weight fraction of VOC in each ink (i) used in the time period as determined from Method 24, manufacturer's formulation data, or plant blending records, in kilograms per kilogram.

W_{si} "means the weight fraction of solids in each ink (i) used in the time period as determined from Method 24, manufacturer's formulation data, or plant blending records, in kilograms per kilogram.

W_{oj} =the weight fraction of VOC in each dilution solvent (j) added at the print line in the time period determined from Method 24, manufacturer's formulation data, or plant blending records, in kilograms per kilogram.

§ 60.582 Standard for volatile organic compounds.

(a) On and after the date on which the performance test required by §60.8 has been completed, each owner or operator subject to this subpart shall either:

(1) Use inks with a weighted average VOC content less than 1.0 kilogram VOC per kilogram ink solids at each affected facility, or

(2) Reduce VOC emissions to the atmosphere by 85 percent from each affected facility.

§ 60.583 Test methods and procedures.

(a) Methods in appendix A of this part, except as provided under §60.8(b), shall be used to determine compliance with §60.582(a) as follows:

(1) Method 24 for analysis of inks. If nonphotochemically reactive solvents are used in the inks, standard gas chromatographic techniques may be used to identify and quantify these solvents. The results of Method 24 may be adjusted to subtract these solvents from the measured VOC content.

(2) Method 25A for VOC concentration (the calibration gas shall be propane);

(3) Method 1 for sample and velocity traverses;

(4) Method 2 for velocity and volumetric flow rates;

(5) Method 3 for gas analysis;

(6) Method 4 for stack gas moisture.

(b) To demonstrate compliance with §60.582(a)(1), the owner or operator of an affected facility shall determine the weighted average VOC content of the inks according to the following procedures:

(1) Determine and record the VOC content and amount of each ink used at the print head, including the VOC content and amount of diluent solvent, for any time periods when VOC emission control equipment is not used.

(2) Compute the weighted average VOC content by the following equation:

$$G = \frac{\sum_{i=1}^n (W_{oi}M_{ci}) + \sum_{j=1}^m (W_{oj}M_{dj})}{\sum_{i=1}^n (M_{ci}M_{s1})}$$

(3) The weighted average VOC content of the inks shall be calculated over a period that does not exceed one calendar month, or four consecutive weeks. A facility that uses an accounting system based on quarters consisting of two 28 calendar day periods and one 35 calendar day period may use an averaging period of 35 calendar days four times per year, provided the use of such an accounting system is documented in the initial performance test.

(4) Each determination of the weighted average VOC content shall constitute a performance test for any period when VOC emission control equipment is not used. Results of the initial performance test must be reported to the Administrator. Method 24 or ink manufacturers' formulation data along with plant blending records (if plant blending is done) may be used to determine VOC content. The Administrator may require the use of Method 24 if there is a question concerning the accuracy of the ink manufacturer's data or plant blending records.

(5) If, during the time periods when emission control equipment is not used, all inks used contain less than 1.0 kilogram VOC per kilogram ink solids, the owner or operator is not required to calculate the weighted average VOC content, but must verify and record the VOC content of each ink (including any added dilution solvent) used as determined by Method 24, ink manufacturers' formulation data, or plant blending records.

(c) To demonstrate compliance with §60.582(a)(1), the owner or operator may determine the weighted average VOC content using an inventory system.

(1) The inventory system shall accurately account to the nearest kilogram for the VOC content of all inks and dilution solvent used, recycled, and discarded for each affected facility during the averaging period. Separate records must be kept for each affected facility.

(2) To determine VOC content of inks and dilution solvent used or recycled, Method 24 or ink manufacturers' formulation data must be used in combination with plant blending records (if plant blending is done) or inventory records or purchase records for new inks or dilution solvent.

(3) For inks to be discarded, only Method 24 shall be used to determine the VOC content. Inks to be discarded may be combined prior to measurement of volume or weight and testing by Method 24.

(4) The Administrator may require the use of Method 24 if there is a question concerning the accuracy of the ink manufacturer's data or plant records.

(5) The Administrator shall approve the inventory system of accounting for VOC content prior to the initial performance test.

(d) To demonstrate compliance with §60.582(a)(2), the owner or operator of an affected facility controlled by a solvent recovery emission control device or an incineration control device shall conduct a performance test to determine overall VOC emission control efficiency according to the following procedures:

(1) The performance test shall consist of three runs. Each test run must last a minimum of 30 minutes and shall continue until the printing operation is interrupted or until 180 minutes of continuous operation occurs. During each test run, the print line shall be printing continuously and operating normally. The VOC emission reduction efficiency achieved for each test run is averaged over the entire test run period.

(2) VOC concentration values at each site shall be measured simultaneously.

(3) The volumetric flow rate shall be determined from one Method 2 measurement for each test run conducted immediately prior to, during, or after that test run. Volumetric flow rates at each site do not need to be measured simultaneously.

(4) In order to determine capture efficiency from an affected facility, all fugitive VOC emissions from the affected facility shall be captured and vented through stacks suitable for measurement. During a performance test, the owner or operator of an affected facility located in an area with other sources of VOC shall isolate the affected facility from other sources of VOC. These two requirements shall be accomplished using one of the following methods:

(i) Build a permanent enclosure around the affected facility;

(ii) Build a temporary enclosure around the affected facility and duplicate, to an extent that is reasonably feasible, the ventilation conditions that are in effect when the affected facility is not enclosed (one way to do this is to divide the room exhaust rate by the volume of the room and then duplicate that quotient or 20 air changes per hour, whichever is smaller, in the temporary enclosure); or

(iii) Shut down all other sources of VOC and continue to exhaust fugitive emissions from the affected facility through any building ventilation system and other room exhausts such as print line ovens and embossers.

(5) For each affected facility, compliance with §60.582(a)(2) has been demonstrated if the average value of the overall control efficiency (EF) for the three runs is equal to or greater than 85 percent. An overall control efficiency is calculated for each run as follows:

(i) For efficiency of the emission control device,

$$EF = \frac{\sum_{i=1}^n (Q_{di} C_{di}) - \sum_{j=1}^m (Q_{dj} C_{dj})}{\sum_{i=1}^n (Q_{di} C_{di})}$$

(ii) For efficiency of the vapor capture system,

$$F = \frac{\sum_{i=1}^n (Q_{bi} C_{bi})}{\sum_{i=1}^n (Q_{bi} C_{bi}) + \sum_{k=1}^p (Q_{fk} C_{fk})}$$

§ 60.584 Monitoring of operations and recordkeeping requirements.

(a) The owner or operator of an affected facility controlled by a solvent recovery emission control device shall install, calibrate, operate, and maintain a monitoring system which continuously measures and records the VOC concentration of the exhaust vent stream from the control device and shall comply with the following requirements:

(1) The continuous monitoring system shall be installed in a location that is representative of the VOC concentration in the exhaust vent, at least two equivalent stack diameters from the exhaust point, and protected from interferences due to wind, weather, or other processes.

(2) During the performance test, the owner or operator shall determine and record the average exhaust vent VOC concentration in parts per million by volume. After the performance test, the owner or operator shall determine and, in addition to the record made by the continuous monitoring device, record the average exhaust vent VOC concentration for each 3-hour clock period of printing operation when the average concentration is greater than 50 ppm and more than 20 percent greater than the average concentration value demonstrated during the most recent performance test.

(b) The owner or operator of an affected facility controlled by a thermal incineration emission control device shall install, calibrate, operate, and maintain a monitoring device that continuously measures and records the temperature of the control device exhaust gases and shall comply with the following requirements:

(1) The continuous monitoring device shall be calibrated annually and have an accuracy of ± 0.75 percent of the temperature being measured, expressed in degrees Celsius, or ± 2.5 °C, whichever is greater.

(2) During the performance test, the owner or operator shall determine and record the average temperature of the control device exhaust gases. After the performance test, the owner or operator shall determine and record, in addition to the record made by the continuous monitoring device, the average temperature for each 3-hour clock period of printing operation when the average temperature of the exhaust gases is more than 28 °C (50 °F) below the average temperature demonstrated during the most recent performance test.

(c) The owner or operator of an affected facility controlled by a catalytic incineration emission control device shall install, calibrate, operate, and maintain monitoring devices that continuously measure and record the gas temperatures both upstream and downstream of the catalyst bed and shall comply with the following requirements:

(1) Each continuous monitoring device shall be calibrated annually and have an accuracy of ± 0.75 percent of the temperature being measured, expressed in degrees Celsius, or ± 2.5 °C, whichever is greater.

(2) During the performance test, the owner or operator shall determine and record the average gas temperature both upstream and downstream of the catalyst bed. After the performance test, the owner or operator shall determine and record, in addition to the record made by the continuous monitoring device, the average temperatures for each 3-hour clock period of printing operation when the average temperature of the gas stream before the catalyst bed is more than 28 °C below the average temperature demonstrated during the most recent performance test or the average temperature difference across the catalyst bed is less than 80 percent of the average temperature difference of the device during the most recent performance test.

(d) The owner or operator of an affected facility shall record time periods of operation when an emission control device is not in use.

§ 60.585 Reporting requirements.

(a) For all affected facilities subject to compliance with §60.582, the performance test data and results from the performance test shall be submitted to the Administrator as specified in §60.8(a).

(b) The owner or operator of each affected facility shall submit semiannual reports to the Administrator of occurrences of the following:

(1) Exceedances of the weighted average VOC content specified in §60.582(a)(1);

(2) Exceedances of the average value of the exhaust vent VOC concentration as defined under §60.584(a)(2);

(3) Drops in the incinerator temperature as defined under §60.584(b)(2); and

(4) Drops in the average temperature of the gas stream immediately before the catalyst bed or drops in the average temperature across the catalyst bed as defined under §60.584(c)(2).

(c) The reports required under paragraph (b) shall be postmarked within 30 days following the end of the second and fourth calendar quarters.

(d) The requirements of this subsection remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected sources within the State will be relieved of the obligation to comply with this subsection, provided that they comply with requirements established by the State.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (a) Natural gas fired combustion sources with the heat input equal to or less than ten (10) million BTU per hour:
 - (1) One (1) natural gas-fired boiler rated at 2.7 MMBtu/hr [326 IAC 6-2-4];
 - (2) One (1) natural gas-fired oven with four (4) 0.75 MMBtu/hr burners for EU-11;
 - (3) Two (2) natural gas-fired indirect heaters rated at 0.75 MMBtu/hr each [326 IAC 6-2-4];
 - (4) Two (2) natural gas-fired dryers rated at 0.304 MMBtu/hr each;
 - (5) One (1) natural gas-fired space heater rated at 0.58 MMBtu/hr;
 - (6) One (1) natural gas-fired indirect heater for EU-13 rated at 2.0 MMBtu/hr[326 IAC 6-2-4];
 - (7) Seven (7) natural gas-fired space heaters rated at 0.09 MMBtu/hr each; and
 - (8) Six (6) natural gas-fired space heaters rated at 0.1 MMBtu/hr each.
- (b) One (1) cold cleaner degreasing operation with a capacity of 20 gallons to clean small parts [326 IAC 8-3-2] [326 IAC 8-3-5][326 IAC 8-3-8];
- (c) VOC/HAP storage containers for lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (d) Equipment relating to manufacturing activities that does not result in HAP emissions including brazing equipment, cutting torches, soldering equipment, and welding equipment;
- (e) Closed loop heating and cooling systems;
- (f) Natural draft cooling towers not regulated under a NESHAP;
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (h) Paved and unpaved roads and parking lots with public access [326 IAC 6-4];
- (i) Blow down for sight glass, boiler, compressors, pumps, and cooling towers.
- (j) Emission units whose potential uncontrolled emissions meet the exemption levels specified in 326 IAC 2-1.1-3(d)(1):
 - (1) Three (3) granulators that chop waste film and recirculate to the mixing line; and
 - (2) One (1) plastisol mixing line.
- (k) One (1) natural gas-fired oven for EU-15 with 6 x 0.75 MMBtu burners

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

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the 2.7 million BTU/hour natural gas-fired boiler, the 2.0 million BTU/hour natural gas-fired indirect heater, and the two (2) 0.75 million BTU/hour natural gas-fired indirect heaters shall not exceed 0.60 pounds PM per million BTU heat input.

D.2.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the brazing, soldering, welding, and cutting torch equipment or the three (3) granulators that chop waste film shall not exceed allowable PM emission rate based on the following equation:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.2.3 Volatile Organic Compounds [326 IAC 8-3-2] [326 IAC 8-3-5][326 IAC 8-3-8]

The degreasing operation shall comply with the following requirements:

- (a) Pursuant to 326 IAC 8-3-2, the owner or operator shall:
- (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements; and
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (b) Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one hand if:
 - A) The solvent volatility is greater than three-tenths (0.3) pounds per square inch (15 millimeters of mercury) measured at 38 degrees Celsius (100 degrees Fahrenheit);
 - B) The solvent is agitated; or
 - C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent

volatility is greater than six-tenths (0.6) pounds per square inch (thirty-two (32) millimeters of mercury) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in 326 IAC 8-3-5(b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than six-tenths (0.6) pounds per square inch (thirty-two (32) millimeters of mercury) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (c) Pursuant to 326 IAC 8-3-5(b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.
- (d) Pursuant to 326 IAC 8-3-8, users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Clark, Floyd, Lake, and Porter Counties, except for solvents intended to be used to clean electronic components, shall ensure that the following operating requirements are met:
- (1) On and after November 1, 1999, no person shall do the following:
 - (A) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
 - (B) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038)

pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

- (2) On and after May 1, 2001, no person shall do the following:
 - (A) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
 - (B) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (3) On and after November 1, 1999, the following record keeping requirements shall be followed:
 - (A) All persons subject to (d)(1)(A) and (d)(2)(A) above shall maintain all of the following records for each sale:
 - (i) The name and address of the solvent purchaser.
 - (ii) The date of sale.
 - (iii) The type of solvent.
 - (iv) The volume of each unit of solvent sold.
 - (v) The total volume of the solvent.
 - (vi) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
 - (B) All persons subject to the requirements of subsection (d)(1)(B) and (d)(2)(B) above shall maintain each of the following records for each purchase:
 - (i) The name and address of the solvent supplier.
 - (ii) The date of purchase.
 - (iii) The type of solvent.
 - (iv) The volume of each unit of solvent.
 - (v) The total volume of the solvent.
 - (vi) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (4) All records required by subsection (3) above shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039

**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: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• 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: Product Specialties, Inc.
 Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
 Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
 FESOP No.: F043-15615-00039
 Facility: Laminators EU-14, EU-12, and EU-16
 Parameter: Film Produced
 Limit: 4,000,000 yards of film/per twelve (12) consecutive month period with compliance determined at the end of each month for each laminator (EU-14, EU-12, and EU-16)

YEAR: _____

Month	Column 1			Column 2			Column 1 + Column 2		
	This Month			Previous 11 Months			12 Month Total		
	EU-12	EU-14	EU-16	EU-12	EU-14	EU-16	EU-12	EU-14	EU-16
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: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039
Facility: Extruders EU-06 and EU-07
Parameter: Material Compounded
Limit: Total of 12,779,088 pounds of material compounded per twelve (12) consecutive month period with compliance determined at the end of each month for extruders EU-06 and EU-07.

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: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039
Facility: Printing Presses: EU-09, EU-11, EU-13, and EU-15
Parameter: VOC Input
Limit: Twenty-three (23) tons VOC input per twelve (12) consecutive month period with compliance determined at the end of the 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: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039
Facility: Printing Presses: EU-09, EU-11, EU-13, and EU-15
Parameter: Single HAP Input
Limit: Nine (9) tons of input of a single HAP 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: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039
Facility: Printing Presses: EU-09, EU-11, EU-13, and EU-15
Parameter: Combination of HAPs Input
Limit: Twenty-four (24) tons of input of a combination of HAPs 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
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Product Specialties, Inc.
Source Address: 2073 McDonald Avenue, New Albany, Indiana 47150
Mailing Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Permit No.: F043-24598-00039

Months: _____ to _____ Year: _____

Page 1 of 2

<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>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	Product Specialties, Inc.
Source Location:	2073 McDonald Avenue, New Albany, Indiana 47150
County:	Floyd
SIC Code:	3081
Permit Renewal No.:	F043-24598-00039
Permit Reviewer:	Donald McQuigg

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Product Specialties, Inc. relating to the operation of a stationary vinyl wall covering manufacturing operation.

History

On April 10, 2007, Product Specialties, Inc. submitted an application to the OAQ requesting to renew its operating permit. Product Specialties, Inc. was issued its first FESOP Renewal on January 22, 2003.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) PVC resin powder storage silo, identified as EU-01, with a maximum storage capacity of 78.8 tons, using a baghouse for particulate matter control, and exhausting to stack V1;
- (b) One (1) calcium carbonate (CaCO₃) storage silo, identified as EU-02, with a maximum storage capacity of 61 tons, using a baghouse for particulate matter control, and exhausting to stack V2;
- (c) One (1) plastic film mixing line, identified as EU-05, with a maximum capacity of 1588 pounds per hour, using baghouses for particulate matter control, exhausting to stack V3;
- (d) Two (2) extrusion units, identified as EU-06 and EU-07, each having a limited throughput of 1020 pounds per hour, exhausting to stacks S4 and S5;
- (e) One (1) rotogravure press with two (2) color printing heads (only one head can be used at a time), identified as EU-09, with a maximum coverage of 15 pounds of ink per million square inches (lb/million in²) of PVC sheet, exhausting to stack S7;
- (f) One (1) rotogravure press with four (4) color printing heads, identified as EU-11, with a maximum coverage of 14.4 pounds of ink per million square inches of PVC sheet per head (lb/million in²/head), exhausting to stack S10; and
- (g) One (1) rotogravure press with four (4) color printing heads, identified as EU-13, with a maximum coverage of 14.4 pounds of ink per million in² of PVC sheet vinyl per head (lb/million in²/head), exhausting to stack S12 and S13.
- (h) Three (3) laminators, identified as EU-16, EU-14 and EU-12, each having a limited production rate of 4,000,000 yds laminated film/year, exhausting to stacks S16, S14 and S8, respectively; and

- (i) One (1) rotogravure press with six (6) color printing heads, identified as EU-15, with a maximum coverage of 14.4 pounds of ink per million square inches of PVC sheet per head (lb/million in²/head), exhausting to stack S15.

Emission Units and Pollution Control Equipment Removed From the Source

Items removed from the source since the last permit modification includes the following:

- (a) One (1) natural gas-fired boiler rated at 2.0 MMBTU/hr for EU-11 was removed. This was the insignificant emission unit previously identified as A.3(a)(2).
- (b) One (1) natural gas-fired drying oven rated at 4.0 MMBTU/hr for EU-15 was removed. This was the insignificant emission unit previously identified as A.3(k).

Insignificant Activities

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

- (a) Natural gas fired combustion sources with the heat input equal to or less than ten (10) million BTU per hour:
 - (1) One (1) natural gas-fired boiler rated at 2.7 MMBTU/hr [326 IAC 6-2-4];
 - (2) One (1) natural gas-fired oven with four (4) 0.75 MMBTU/hr burners for EU11;
 - (3) Two (2) natural gas-fired indirect heaters rated at 0.75 MMBTU/hr each [326 IAC 6-2-4];
 - (4) Two (2) natural gas-fired dryers rated at 0.304 MMBTU/hr each;
 - (5) One (1) natural gas-fired space heater rated at 0.58 MMBTU/hr;
 - (6) One (1) natural gas-fired indirect heater for EU-13 rated at 2.0 MMBTU/hr [326 IAC 6-2-4];
 - (7) Seven (7) natural gas-fired space heaters rated at 0.09 MMBTU/hr each; and
 - (8) Six (6) natural gas-fired space heaters rated at 0.1 MMBTU/hr each.
- (b) One (1) cold cleaner degreasing operation with a capacity of 20 gallons to clean small parts [326 IAC 8-3-2] [326 IAC 8-3-5][326 IAC 8-3-8];
- (c) VOC/HAP storage containers for lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (d) Equipment relating to manufacturing activities that does not result in HAP emissions including brazing equipment, cutting torches, soldering equipment, and welding equipment [326 IAC 6-3-2];
- (e) Closed loop heating and cooling systems;
- (f) Natural draft cooling towers not regulated under a NESHAP;
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (h) Paved and unpaved roads and parking lots with public access [326 IAC 6-4];

- (i) Blow down for sight glass, boiler, compressors, pumps, and cooling towers; and
- (j) Emission units whose potential uncontrolled emissions meet the exemption levels specified in 326 IAC 2-1.1-3(e)(1):
 - (1) Three (3) granulators that chop waste film and recirculate to the mixing line; and
 - (2) One (1) plastisol mixing line.
- (k) One (1) natural gas-fired oven for EU-15 with 6 x 0.75 MMBtu burners.

Existing Approvals

Since the issuance of the FESOP 043-15615-00039 issued on January 22, 2003, the source has constructed or has been operating under the following approvals as well:

- (a) Significant Permit Revision No. 043-23144-00039 issued on October 18, 2006;
- (b) Significant Permit Revision No. 043-22602-00039 issued on June 8, 2006;
- (c) Administrative Amendment No. 043-20492-00039 issued on January 11, 2005; and
- (d) Administrative Amendment No. 043-19075-00039 issued on July 21, 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.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Floyd County.

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

- (a) U.S. EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Floyd County as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability – Entire Source section.

- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone standards. Floyd County has been designated as attainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration, 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Floyd County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	99.15
PM ₁₀ *	99.45
SO ₂	0.03
VOC	484.36
CO	4.30
NO _x	5.10

*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM₁₀ emissions as surrogate for PM_{2.5} emissions.

HAPs	tons/year
methanol	198.82
Total	198.82

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit its VOC emissions to less than Title V levels, therefore the source will be issued a FESOP.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants is less than 100 tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. However, the source has agreed to limit its single HAP emissions and total HAP emissions below Title V limits. Therefore, the source will be issued a FESOP.

- (d) 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.

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)						
	PM	PM ₁₀	SO ₂	NO _x	CO	VOC	HAPs
Resin storage silo, EU-01	25.1	25.1	-	-	-	-	-
Limestone storage silo, EU-02	16.5	16.5	-	-	-	-	-
Plastic film mixing line, EU-05	12.4	12.4	-	-	-	-	-
Extrusion unit, EU-06	7.41	7.41	-	-	-	27.4	-
Extrusion unit, EU-07	7.41	7.41	-	-	-		-
Rotogravure press, EU-09	-	-	-	-	-	23.0	9 of a single HAP & 24 of a combination of HAPs
Rotogravure press, EU-11	-	-	-	-	-		
Rotogravure press, EU-13	-	-	-	-	-		
Rotogravure press, EU-15	-	-	-	-	-		
Laminator, EU-14	1.00	1.00	-	-	-	13.0	-
Laminator, EU-12	1.00	1.00	-	-	-	13.0	-
Laminator, EU-16	1.00	1.00	-	-	-	13.0	-
Insignificant Units	0.1	0.4	0.03	5.1	4.3	0.3	0.1
Degreaser	-	-	-	-	-	5.5	-
Total PTE of Entire Source	71.92	72.22	0.03	5.1	4.3	95.2	Less than 10 of a single HAP & less than 25 of a combination of HAPs
Title V Major Source Thresholds	NA	100	100	100	100	100	10/25
PSD Major Source Thresholds	250	250	250	250	250	250	NA

"-" denotes emission units which do not emit the indicated pollutant.
 "NA" denotes not applicable.

Federal Rule Applicability

- (a) The printing operations are subject to the New Source Performance Standard for Standards of Performance for Flexible Vinyl and Urethane Coating and Printing (40 CFR 60.580, Subpart FFF), which is incorporated by reference as 326 IAC 12. NSPS Subpart

FFF is applicable to the source because each printing press is a rotogravure press and they were all constructed after the applicability date of January 18, 1983. The specific facilities subject to this rule include the following:

- (1) The rotogravure printing presses identified as EU-09, EU-11, EU-13, and EU-15.

The printing presses are subject to the following portions of Subpart FFF:

- (1) 40 CFR 60.580
 - (2) 40 CFR 60.581
 - (3) 40 CFR 60.582
 - (4) 40 CFR 60.583
 - (5) 40 CFR 60.584
 - (6) 40 CFR 60.585
- (b) The printing presses are not subject to the New Source Performance Standard for Standards of Performance for the Graphic Arts Industry: Publication Rotogravure Printing (40 CFR 60.430, Subpart QQ). The printing presses, identified as EU-09, EU-11, EU-13, and EU-15 are not publication rotogravure printing presses as defined in 40 CFR 60.431. Therefore, these requirements are not included in this permit.
 - (c) This source is not subject to the New Source Performance Standard for Standards for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry (40 CFR 60.560, Subpart DDD). Sources potentially regulated by this rule are those facilities involved in the manufacture of polypropylene, polyethylene, polystyrene, or polyethylene terephthalate. Product Specialties, Inc. only purchases already manufactured polymer resin to produce unsupported PVC film and fabric backed PVC wall covering for the commercial market. Therefore, these requirements are not included in this permit.
 - (d) The natural gas boilers at this source are not subject to the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40c, Subpart Dc), because each boiler has a design heat input capacity less than ten (10) million Btu per hour. Therefore, these requirements are not included in this permit.
 - (e) 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.
 - (1) This source is not subject to National Emission Standards for Hazardous Air Pollutants for the Printing and Publishing Industry (40 CFR 63.820, Subpart KK) which is incorporated by reference as 326 IAC 20-18. This source is not a major source of hazardous air pollutants (HAP) as defined in 40 CFR 63.2.
 - (2) This source is not subject to National Emission Standards for Hazardous Air Pollutants for Group IV Polymers and Resins (40 CFR 63.1310, Subpart JJJ) which is incorporated by reference as 326 IAC 20-21. The sources potentially regulated by Subpart JJJ are those facilities which manufacture thermoplastic resins as defined in 40 CFR 63.1312. The Permittee does not manufacture any of these resins. The Permittee purchases manufactured resin to produce unsupported PVC film and fabric backed PVC wall covering for the commercial market.
 - (3) This source is not subject to National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating (40 CFR 63.3280, Subpart JJJJ) which is incorporated by reference as 326 IAC 20-65. This source is not a major source of hazardous air pollutants (HAP) as defined in 40 CFR 63.2.

- (4) 40 CFR 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning) does not apply to the degreaser which uses mineral spirits. Mineral spirits does not contain any of the chemicals identified §60.460(a) that make it applicable to this subpart.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is located in Floyd County and the potential to emit of each criteria pollutant is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 2-2 (Prevention of Significant Deterioration)

The source was originally constructed in 1978 with emission units EU-1, EU-2, EU-5, EU-6, EU-7, EU-8, and EU-9. The total unrestricted emissions for these units were 116.4 tons per year of PM/PM₁₀ and 79.4 tons per year of VOC. As a result, the source was minor for PSD because it is not 1 of the 28 source categories and both VOC and PM/PM₁₀ were less than 250 tons per year. Additional units have been installed at the source since the source was constructed in 1978. EU-10, EU-11, EU-12 were constructed in the First Significant Permit Modification 043-10076-00030, issued on November 16, 1998. Two (2) natural gas-fired dryers and one (1) natural gas-fired space heater were constructed in First Significant Permit Revision 043-10564-00039, issued on May 30, 2000. EU-13, EU-14, and one natural gas-fired heater were constructed in Second Significant Permit Revision 043-13627-00039, issued on May 22, 2001. Subsequent to the issuance of the FESOP renewal 043-15615-00039, the source has constructed EU15 and EU16, as indicated in Second Significant Permit Revision 043-23144-00039, issued on October 18, 2006.

All units at the source have total emissions below 250 tons per year for each pollutant. Therefore, the source is still minor for PSD and 326 IAC 2-2 is not applicable.

326 IAC 2-4.1 (New Source Toxics Control):

The operation of the four (4) rotogravure presses (EU-09, EU-11, EU-13, and EU-15) will emit 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. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-8 (FESOP)

Pursuant to 326 IAC 2-8, the following facilities shall be limited as follows:

- (a) The total material compounded from extruders EU-06 and EU-07 shall not exceed 12,779,088 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month. The emission rate shall not exceed 0.0043 lb of VOC per lb of compounded material. These limits are equivalent to VOC emissions of 27.4 tons per year total for both extruders.
- (b) The VOC input for all the rotogravure presses, identified as EU-09, EU-11, EU-13, and EU-15, shall not exceed 23.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The production rate of laminators EU-14, EU-12, and EU-16 shall each be limited to not exceed 4,000,000 yards of film per twelve (12) consecutive month period, with compliance determined at the end of each month, and an emission rate of 0.0065 pounds of VOC per yard of film. These limits are equivalent to VOC emissions of 39.0 tons per year of VOC total for all three (3) laminators.
- (d) The input of a single HAP to the four (4) rotogravure presses (EU-09, EU-11, EU-13, and EU-15) shall not exceed nine (9) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The input of a combination of HAPs to the four (4) printers (EU-09, EU-11, EU-13, and EU-15) shall not exceed twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The FESOP limits will result in equivalent VOC emissions of 89.4 tons per twelve (12) consecutive month period from the entire source. The HAP input limits are equivalent to emissions of single HAPs of less than ten (10) tons per year and twenty-five (25) tons per year of a combination of HAPs from the entire source. Therefore, the requirements of 326 IAC 2-7 do not apply.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 6-4 (Fugitive Dust Emissions)

The paved and unpaved roads are subject to 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.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

The source is located in Floyd County which is attainment for particulate matter. 326 IAC 6-5 applies to nonattainment areas of particulate matter or new sources of fugitive particulate matter emissions located anywhere in the state requiring a permit as set forth in 326 IAC 2, which has not received all the necessary preconstruction approvals before December 13, 1988. Therefore, 326 IAC 6-5 is not applicable to this source.

State Rule Applicability – Individual Facilities

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

The particulate from the two (2) storage silos (EU-01 & EU-02), the one (1) mixing operation (EU-05), the two (2) extruder lines (EU-06 & EU-07), and the three (3) laminating lines (EU-08, EU-12, and EU-14) shall not exceed the following allowable PM emissions when operating at a process weight rate as shown in the table below:

Process Facility	Stack ID	Process Throughput (tons/hr)	Allowable PM Emissions (lbs/hr)
Resin Powder Storage Silo, EU-01	V1	0.44	2.37
CaCO ₃ Storage Silo, EU-02	V2	0.29	1.79
Plastic Film Mixing Line, EU-05	V3	0.794	3.52
Extrusion Unit, EU-06	S4	0.51	1.66
Extrusion Unit, EU-07	S5	0.51	1.66
Laminator, EU-12	S8	0.844	3.66
Laminator, EU-14	S15	0.844	3.66
Laminator, EU-16	S16	0.844	3.66
Total			21.98

The pounds per hour limitation is calculated using the following equation:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

The baghouses shall be in operation at all times the silos, mixing, and extruder units are in operation in order to comply with this limit per manufacturers specifications. Based on stack testing, the laminators are in compliance with this rule with no additional controls necessary.

Pursuant to 326 IAC 6-3-2, the particulate from the three (3) granulators shall not exceed the following allowable PM emissions:

The pounds per hour limitation is calculated using the following equation:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

326 IAC 6-2-4 (Emissions Limitations for Facilities Specified in 326 IAC 6-2-1(d))

Pursuant to 326 IAC 6-2-4, particulate emissions from the 2.7 MMBtu/hr natural gas-fired boiler, 2.0 MMBtu/hr natural gas-fired indirect heater, and the two (2) 0.75 MMBtu/hr natural gas-fired indirect heaters, which were constructed after September 21, 1983 shall be limited to 0.6 pounds PM per million BTU heat input. This is the lesser of the value presented in 326 IAC 6-2-4(a) for boilers less than 10 MMBtu/hr and the value obtained when using the following equation. The particulate from the indirect heating facilities shall not exceed the following allowable PM emissions:

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

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

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

For Q less than 10 mmBtu/hr, Pt shall not exceed 0.6. For the gas-fired indirect heaters above, Q is 6.2. The potential to emit PM is as follows:

$$0.1 \text{ tons PM/yr} \times (2000 \text{ lbs/ton} \div 8760 \text{ hrs/yr}) = 0.023 \text{ lbs PM/hr}$$

$$Pt = 0.023 \text{ lbs PM/hr} \div 6.2 \text{ MMBtu/hr} = 0.004 \text{ lbs PM/MMBtu}$$

Therefore, the gas-fired indirect heaters will comply with this rule.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

- (a) EU-01, EU-02, EU-05, EU-06, and EU-07 are facilities constructed prior to January 1, 1980. Therefore, they are not subject to 326 IAC 8-1-6.

- (b) EU-09, EU-11, EU-13, and EU-15 are not subject to 326 IAC 8-1-6 because they are subject to 326 IAC 8-2-11.

- (c) EU-16, EU-14, and EU-12 are facilities constructed after January 1, 1980. Although they were constructed after January 1, 1980, they are not subject to 326 IAC 8-1-6 because each emission unit is limited to less than twenty-five (25) tons per year of VOC.

326 IAC 8-2-11 (Surface Coating VOC Emission Limitations for Fabric and Vinyl Coating)

Pursuant to 326 IAC 8-2-1(a), 326 IAC 8-2-11 is applicable to the printing operations (EU-09, EU-11, EU-13, and EU-15) because the source is located in Floyd County, the facilities were existing as of January 1, 1980, and they saturate 100% of the substrate with a surface coating. The VOC emissions from the coating applicators of the printing operations (EU-09, EU-11, EU-13, and EU-15) shall not exceed 4.8 lbs VOC per gallon of coating, excluding water. The worst-case, as-applied coating for the printing operations has a VOC content of 3.72 lbs per gallon coating, excluding water. Therefore, the source is in compliance with this rule.

326 IAC 8-3 (Organic Solvent Degreaser Operations)

The organic solvent degreasing operation is subject to 326 IAC 8-3-2 because it is an existing facility as of January 1, 1980 located in Floyd county at a source with potential emissions equal to or greater than 100 tons per year of VOC. The organic solvent degreasing operation is subject to 326 IAC 8-3-5 because it is located in Floyd county and existing as of July 1, 1990. The organic solvent degreasing operation is subject to 326 IAC 8-3-8 because the source is a user of solvents in a cold cleaner degreaser which is located in Floyd county.

The degreasing operation shall comply with the following requirements:

- (a) Pursuant to 326 IAC 8-3-2, the owner or operator shall:
 - (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements; and
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

- (b) Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one hand if:
 - A) The solvent volatility is greater than three-tenths (0.3) pounds per square inch (15 millimeters of mercury) measured at 38 degrees Celsius (100 degrees Fahrenheit);
 - B) The solvent is agitated; or
 - C) The solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than six-tenths (0.6) pounds per square inch (thirty-two (32) millimeters of mercury) measured at thirty-eight degrees Celsius (38^oC) (one hundred degrees Fahrenheit (100^oF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in 326 IAC 8-3-5(b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than six-tenths (0.6) pounds per square inch (thirty-two (32) millimeters of mercury) measured at thirty-eight degrees Celsius (38^oC) (one hundred degrees Fahrenheit (100^oF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^oC) (one hundred twenty degrees Fahrenheit (120^oF)):
 - A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (c) Pursuant to 326 IAC 8-3-5(b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.
- (d) Pursuant to 326 IAC 8-3-8, users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Clark, Floyd, Lake, and Porter Counties, except for solvents intended to be used to clean electronic components, shall ensure that the following operating requirements are met:
- (1) On and after November 1, 1999, no person shall do the following:
 - (A) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.

- (B) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds two (2) millimeters of mercury (thirty-eight thousandths (0.038) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (2) On and after May 1, 2001, no person shall do the following:
- (A) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
 - (B) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (3) On and after November 1, 1999, the following record keeping requirements shall be followed:
- (A) All persons subject to (d)(1)(A) and (d)(2)(A) above shall maintain all of the following records for each sale:
 - (i) The name and address of the solvent purchaser.
 - (ii) The date of sale.
 - (iii) The type of solvent.
 - (iv) The volume of each unit of solvent sold.
 - (v) The total volume of the solvent.
 - (vi) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
 - (B) All persons subject to the requirements of subsection (d)(1)(B) and (d)(2)(B) above shall maintain each of the following records for each purchase:
 - (i) The name and address of the solvent supplier.
 - (ii) The date of purchase.
 - (iii) The type of solvent.
 - (iv) The volume of each unit of solvent.
 - (v) The total volume of the solvent.
 - (vi) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (4) All records required by subsection (3) above shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

326 IAC 8-5-5 (Graphic Arts Operation)

The requirements of 326 IAC 8-5-5 do not apply to any of the printing presses because they are not packaging rotogravure, publication rotogravure or flexographic printing operations.

326 IAC 8-6-1 (Organic Solvent Emission Limitations)

The emission units at the source that existed before 1980 (EU-01, EU-02, EU-05, EU-06, EU-07, and EU-09) have potential emissions of less than 100 tons per year of VOC. Therefore, 326 IAC 8-6-1 does not apply to this source.

326 IAC 8-7 (Specific VOC Reduction Requirements for Floyd County)

The VOC emission limits of 326 IAC 8-7-3 do not apply to this source because the potential to emit for the source has been limited to less than one hundred (100) tons of VOC per year and each of the coating facility's (EU-09, EU-11, EU-13, and EU-15) potential to emit has been limited to less than ten (10) tons of VOC per year.

Compliance Determination and Monitoring Requirements

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

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

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

Visible Emissions Notations

- (a) Visible emission notations of the plastic film mixing line (EU-05) baghouse stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations from each storage silo (EU-01 and EU-02) baghouse stack exhaust shall be performed during loading operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (c) 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.
- (d) 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.
- (e) 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.

- (f) 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 (i.e., the process did not operate that day).

Daily Monitoring of Baghouse Operational Parameters

- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the plastic film mixing line (EU-05), at least once per day when any plastic film mixing line (EU-05) are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the aggregate dryer/mixer. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

These monitoring conditions are necessary because the baghouses for the storage silos and the mixing lines must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

Recommendation

The staff recommends to the Commissioner that this 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 April 10, 2007. Additional information was received on August 23, 2007.

Conclusion

The operation of this stationary vinyl wall covering manufacturing operation shall be subject to the conditions of the attached FESOP Renewal No. 043-24598-00039.

Appendix A: Emission Calculations Emission Summary

Company Name: Product Specialties, Inc.
Address City IN Zip: 2073 McDonald Avenue
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 10-Dec-07

Uncontrolled Potential Emissions (tons/year)											
Pollutant	Printing Press	Printing Press	Printing Press	Printing Press	Storage Silos	Mixing	Extruders	Laminators	Natural Gas	Insignificant	TOTAL
	EU-09	EU-11	EU-13	EU-15	EU-01, EU-02	EU-05	EU-06, EU-07	EU-16, EU-12, EU-14	Combustion	Activities	
PM	0.00	0.00	0.00	0.00	41.60	12.40	20.80	11.80	0.10	0.05	86.75
PM10	0.00	0.00	0.00	0.00	41.60	12.40	20.80	11.80	0.50	0.05	87.15
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04
NOx	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	7.10
VOC	13.75	52.80	52.80	79.21	0.00	0.00	126.00	154.00	0.40	5.50	484.46
CO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00	5.90
total HAPs	13.75	52.80	52.80	79.21	0.00	0.00	0.00	0.00	0.13	0.11	198.80
worst case single HAP	13.75(Methanol)	52.8(Methanol)	52.8(Methanol)	79.21(Methanol)	0.00	0.00	0.00	0.00	0.13 (hexane)	0.00	198.56(Methanol)

Total emissions based on rated capacity at 8,760 hours/year.

Limited Potential Emissions (tons/year)											
Pollutant	Printing Press	Printing Press	Printing Press	Printing Press	Storage Silos	Mixing	Extruders	Laminators	Natural Gas	Insignificant	TOTAL
	EU-09	EU-11	EU-13	EU-15	EU-01, EU-02	EU-05	EU-06, EU-07	EU-16, EU-12, EU-14	Combustion	Activities	
PM	0.00	0.00	0.00	0.00	41.60	12.40	14.82	3.00	0.10	0.05	71.97
PM10	0.00	0.00	0.00	0.00	41.60	12.40	14.82	3.00	0.50	0.05	72.37
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04
NOx	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	7.10
VOC	<23				0.00	0.00	27.48	39.00	0.40	5.50	< 100
CO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00	5.90
total HAPs	< 24				0.00	0.00	0.00	0.00	0.13	0.11	< 25
worst case single HAP	<9 (methanol)				0.00	0.00	0.00	0.00	0.13 (hexane)	0.00	<9 (Methanol)

Total emissions based on rated capacity at 8,760 hours/year, after control.

Appendix A: Emission Calculations
HAP PTE Emissions for Rotogravure Presses (EU-09, EU-11, EU-13, EU-15)

Company Name: Product Specialties, Inc.
Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 15-Oct-07

Printing Potential to emit HAPs

Worst Case As-Applied Ink	Unit ID Number	Max. Usage Rate (gal/hour)	Density (lb/gal)	Weight % Triethylamine	Weight % Methanol	Weight % Ethylene Glycol	PTE of Triethylamine (tons/year)	PTE of Methanol (tons/year)	PTE of Ethylene Glycol (tons/year)
Penn Color 16C201	EU-15	11.93	8.92	0.00%	17.00%	0.00%	0.00	79.21	0.00
Penn Color 16C201	EU-13	7.95	8.92	0.00%	17.00%	0.00%	0.00	52.80	0.00
Penn Color 16C201	EU-11	7.95	8.92	0.00%	17.00%	0.00%	0.00	52.80	0.00
Penn Color 16C201	EU-09	2.07	8.92	0.00%	17.00%	0.00%	0.00	13.75	0.00

Total Uncontrolled HAPs: 198.6

METHODOLOGY

Maximum Usage Rate (gal/hour) = Maximum throughput (MM in²/year) / 8760 (hours/year) * Maximum coverage (lb/MMin²) / Density (lb/gal)

PTE HAP (tons/year) = Maximum usage rate (gal/hour) * Density (lb/gal) * Weight % HAP * 8760 (hours/year) * 1 ton/2,000 lbs

Appendix A: Emission Calculations
VOC PTE Emissions for Rotogravure Presses (EU-09, EU-11, EU-13, EU-15)

Company Name: Product Specialties, Inc.
Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 11-Oct-07

Printing Potential to Emit VOC

Worst Case As-Applied Ink	Unit ID Number	Max Line Speed (feet/minute)	Max Width (inches)	Max Throughput (MMin ² /year)	Max Coverage (lb/MMin ²)	Weight % VOC	PTE of VOC (tons/year)
Penn Color 16C201	EU-15	30	57	10,785	86.4	17.0	79.21
Penn Color 16C201	EU-13	30	57	10,785	57.6	17.0	52.80
Penn Color 16C201	EU-11	30	57	10,785	57.6	17.0	52.80
Penn Color 16C201	EU-09	30	57	10,785	15	17.0	13.75
Total Uncontrolled VOC:							198.6

METHODOLOGY

Max. throughput (MM in²/year) = Max line speed (feet/min) * 12 inches/foot * Max print width (inches) * 60 min/hour * 8760 hours/year * 1 MMin²/1,000,000 in²

PTE VOC (tons/year) = Max. coverage (lbs/MM in²) * Weight % VOC * Max. throughput (MM in²/year) * 1 ton/2000 lbs

Worst case ink

Appendix A: Emission Calculations
Bulk Material Storage & Handling (EU-01 & EU-02)

Company Name: Product Specialties, Inc.
Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 15-Oct-07

Raw Material	Unit ID Number	Max Rate tons/hr	PM/PM10 Emission Factor lb PM/ton	PM/PM10 Emissions tons/yr	Pollution Control % Efficiency	PM/PM10 Emissions with Control tons/yr
Resin Silo	EU-01	0.44	13	25.05	99.0	0.251
CaCO ₃ Silo	EU-02	0.29	13	16.51	99.0	0.165
Totals:				41.6		0.42

METHODOLOGY

Emission Factors for the loading/transferring activities were derived from actual data: lb PM/ton material = 100 lb collected / 15,500 lb material * 2000 lb/ton material
 Potential PM Emissions, tons/yr = max rate, tons/yr * emission factor, lb PM/ton material * ton/2000 lb * 8760 hr/yr

Note: Calculations were taken from original FESOP 043-6294-00039

**Appendix A: Emission Calculations
Plastic Mixing Line (EU-05)**

Company Name: Product Specialties, Inc.
Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 15-Oct-07

Plastic Film Mixing Process (EU-05)

Raw Material	Unit ID Number	Max Rate tons/hr	PM/PM10 Emission Factor lb PM/ton	PM/PM10 Emissions tons/yr	Pollution Control % Efficiency	PM/PM10 Emissions with Control tons/yr
Dry Scale	EU-05-01	0.739	0.6	1.94	95.0	0.097
Scale Transfer	EU-05-02	0.794	0.6	2.09	99.0	0.021
Mixer Transfer	EU-05-03	0.794	0.6	2.09	99.0	0.021
Cool Blend Transfer	EU-05-04	0.794	0.6	2.09	99.0	0.021
Tote Transfer	EU-05-05	0.794	0.6	2.09	99.0	0.021
Ribbon Blend Transfer	EU-05-06	0.794	0.6	2.09	99.0	0.021
Totals:				12.4		0.201

Methodology:

Emission Factors for the loading/transferring activities were derived from actual data: lb PM/ton material = 100 lb collected / 15,500 lb material * 2000 lb/ton material

Emission Factors for the mixing process are from AP 42, Chapter 11.13, Tables 11.13-2, SCC #3-05-012-23

Potential PM Emissions, tons/yr = max rate, tons/yr * emission factor, lb PM/ton material * ton/2000 lb * 8760 hr/yr

Note: Calculations were taken from original FESOP 043-6294-00039

**Appendix A: Emission Calculations
Laminators (EU-16, EU-14, and EU-12)**

Company Name: Product Specialties, Inc.
Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 15-Oct-07

Emission Unit	Unit ID Number	Maximum Usage (yards/hour)	Limited Usage (yards/year)	VOC Emission Factor (lb VOC/yard)	Limited PTE of VOC (tons/year)	Unlimited PTE of VOC (tons/year)	PM/PM10 Emission Factor (lb PM/yard)	Limited PTE of PM/PM10 (tons/year)	Unlimited PTE of PM/PM10 (tons/year)	
Laminator	EU-16	1,800	4,000,000	0.0065	13.0	51.2	0.0005	1.00	3.94	
Laminator	EU-14	1,800	4,000,000	0.0065	13.0	51.2	0.0005	1.00	3.94	
Laminator	EU-12	1,800	4,000,000	0.0065	13.0	51.2	0.0005	1.00	3.94	
					39.0	154			3.00	11.8

Note: Emission factors for the laminator were derived from actual stack test data from a similar source and used in FESOP No.: 043-15615-00039, issued January 22, 2003.

METHODOLOGY

Limited PTE of VOC (tons/year) = Limited usage (yards/year) * VOC emission factor (lb VOC/yard) * 1 ton/2000 lbs

Limited PTE of PM/PM10 (tons/year) = Max. usage (yards/year) * PM/PM10 emission factor (lb PM/yard) * 1 ton/2000 lbs

Unlimited PTE of VOC per laminator (tons/year) = Maximum Usage (yards/hour) * VOC emission factor (lb VOC/yard) * 8760 hours/year * 1 ton/2000 lbs

Unlimited PTE of PM/PM10 per laminator (tons/year) = Maximum Usage (yards/hour) * PM/PM10 emission factor (lb PM/PM10/yard) * 8760 hours/year * 1 ton/2000 lbs

**Appendix A: Emission Calculations
Limited PTE for Extruders (EU-06 and EU-07)**

Company Name: Product Specialties, Inc.
Address: 2073 McDonald Avenue, New Albany, Indiana 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 16-Oct-07

Unit	Unit ID Number	Max Usage ¹ (lb cmpd/year)	VOC Emission Factor (lb VOC/lb cmpd)	PTE of VOC (tons/year)	PTE of VCM ² (tons/year)	PM/PM10 Emission Factor (lb PM/lb cmpd)	PTE of PM/PM10 (tons/year)
Extruder 1	EU-06	6,389,544	0.0043	13.7	0.0032	0.00232	7.41
Extruder 2	EU-07	6,389,544	0.0043	13.7	0.0032	0.00232	7.41
Total		12,779,088		27.48			14.82

Note: Emission factors for the extruders were derived from actual stack test data from a similar source and used in FESOP No.: 043-15615-00039, issued January 22, 2003.

- 1) The Permittee has requested to revise the FESOP limit for existing extruders (EU-6 and EU-7) from combined limit of 9,127,920 lbs of compound /year to 6,389,544 lbs of compound/year each.
- 2) The maximum vinylchloride monomer (VCM) content of the PVC is 10ppm

METHODOLOGY

Limited PTE (tons/year) = Limited usage (lb cmpd/year) * Emission factor (lb pollutant/lb cmpd) * 1 ton/2000 lbs

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

Company Name: Product Specialties, Inc
Address City IN Zip: 2073 McDonald Ave, New Albany, IN 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 15-Nov-07

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

16.1

141.0

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.1	0.5	4.231E-02	7.1	0.4	5.9

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

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

HAPS calculations on page 9

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

Company Name: Product Specialties, Inc
Address City IN Zip: 2073 McDonald Ave, New Albany, IN 47150
FESOP Renewal No.: F043-24598-00039
Reviewer: Donald McQuigg
Date: 15-Nov-07

HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.481E-04	8.462E-05	5.289E-03	1.269E-01	2.398E-04

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	3.526E-05	7.757E-05	9.873E-05	2.680E-05	1.481E-04

Methodology is the same as page 8.

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