

PART 70 OPERATING PERMIT OFFICE OF AIR MANAGEMENT

**Prodesign Composites
300 York Drive
Middlebury, Indiana 46540**

(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.

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

Operation Permit No.: T 039-6917-00065	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date:

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

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

The Permittee owns and operates a stationary fiberglass reinforced plastic composite parts manufacturing source.

Responsible Official: Kevin Gipson
Source Address: 300 York Drive, Middlebury, Indiana 46540
Mailing Address: P.O. Box 319, Middlebury, Indiana 46540
Phone Number: 219 - 262 - 9250
SIC Code: 3089
County Location: Elkhart
County Status: Attainment for all criteria pollutants
Source Status: Part 70 Permit Program
Minor Source, under PSD Rules;
Major Source, Section 112 of the Clean Air Act

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

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

- (a) Fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, equipped with mechanical, non-atomized flow coaters for resin application and high volume, low pressure (HVLP) spray guns for gelcoat application and dry filters for overspray control, exhausting to stacks V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19, average maximum capacity: 1,270 pounds per hour of resin and gelcoat.
- (b) Surface coating operations, identified as EU-3, for coating fiberglass reinforced plastic parts, equipped with aerosol cans and high volume, low pressure (HVLP) spray guns, exhausting to stacks V4, V9, and V11, capacity: 12 fiberglass reinforced plastic parts per hour.
- (c) Grinding operations, identified as EU-2, for finishing fiberglass reinforced plastic parts, constructed in 1993, equipped with dry filters, exhausting to stacks V6, V7, V8, V12, EF6, and EF15, average maximum capacity: 1,270 pounds per hour.

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

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

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

- (b) Woodworking operations, equipped with a baghouse dust control system, with a flow rate of less than 4,000 cubic feet per minute. [326 IAC 6-3-2]

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

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

- (a) 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 Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

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

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

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

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

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, 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.

- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) 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.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

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

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. IDEM, OAM, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.13 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.
- (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, OAM, 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 Management, Compliance Section), or

Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

- (A) A description of the emergency;

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 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 materials of substantial economic value.

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

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or

- (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408 (a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC 2-7-12(b)(7)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

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

B.18 Permit Renewal [326 IAC 2-7-4]

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) 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, OAM, on or before the date it is due.
 - (2) If IDEM, OAM, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAM, 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, OAM, any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]

If IDEM, OAM, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the “responsible official” as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.

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

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

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

B.21 Operational Flexibility [326 IAC 2-7-20]

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

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-1.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20 (b), (c), or (e) and makes such records available, upon reasonable request, for public review.

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (1) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).
- (2) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (i) A brief description of the change within the source;
 - (ii) The date on which the change will occur;
 - (iii) Any change in emissions; and
 - (iv) Any permit term or condition that is no longer applicable as a result of the change.

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

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAM, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.22 Construction Permit Requirement [326 IAC 2]

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2.

B.23 Inspection and Entry [326 IAC 2-7-6(2)]

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM, the applicable

fee is due April 1 of each year.

- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

- C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]
Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- C.2 Opacity [326 IAC 5-1]
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]
The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. The provisions of 326 IAC 9-1-2 are not federally enforceable.
- C.5 Fugitive Dust Emissions [326 IAC 6-4]
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.
- C.6 Operation of Equipment [326 IAC 2-7-6(6)]
Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.
- C.7 Stack Height [326 IAC 1-7]
The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

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

C.10 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. 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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

C.12 Monitoring Methods [326 IAC 3]

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, or other approved methods as specified in this permit.

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

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

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

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

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

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

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

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

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

C.15 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6] [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall consti-

tute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement

shall meet the following requirements:

- (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:
- Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

C.18 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM, may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three

(3) years and available upon the request of an IDEM, OAM, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Records of required monitoring information shall include, where applicable:
- (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (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, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (a) Fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, equipped with mechanical, non-atomized flow coaters for resin application and high volume, low pressure (HVLP) spray guns for gelcoat application and dry filters for overspray control, exhausting to stacks V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19, average maximum capacity: 1,270 pounds per hour of resin and gelcoat.
- (b) Surface coating operations, identified as EU-3, for coating fiberglass reinforced plastic parts, equipped with aerosol cans and high volume, low pressure (HVLP) spray guns, exhausting to stacks V4, V9, and V11, capacity: 12 fiberglass reinforced plastic parts per hour.

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

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

D.1.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6] [326 IAC 2-2] [40 CFR 52.21]

- (a) Any change or modification that increases the potential to emit VOC from the surface coating operations to 25 tons per year or more may cause the requirements of 326 IAC 8-1-6 to be applicable and shall require prior IDEM, OAM approval.
- (b) The total VOC usage at the fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, the surface coating operations, identified as EU-3 and all insignificant activities shall be limited such that the total VOC emissions are less than 249 tons per consecutive twelve (12) month period. This will result in VOC emissions of less than 250 tons per year from the entire source. Therefore, the requirements of 326 IAC 2-2, Prevention of Significant Deterioration are not applicable.
- (c) The BACT for the fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, has been presumptively determined to be the following:
 - (1) The use of gel coats and resins shall be limited such that the potential to emit (PTE) volatile organic compounds from use of such resins and gel coats only shall be less than 249 tons per consecutive twelve (12) month period. Compliance with this limit shall be determined based upon the following criteria:
 - (A) Monthly usage by weight, monomer content that is VOC, method of application, and other emission reduction techniques for each gel coat and resin shall be recorded. Volatile organic compound emissions shall be calculated by multiplying the usage of each gel coat and resin by the emission factor that is appropriate for the monomer content, method of application and other emission reduction techniques for each gel coat and resin, and summing the emissions for all gel coats and resins. Emission factors shall be obtained from the reference approved by IDEM, OAM.
 - (B) The emission factors approved for use by IDEM, OAM shall be taken from the following reference: "Unified Emission Factors for Open Molding of Composites," Composites Fabricators Association, April 1999, with the exception of the emission factors for controlled spray application. This reference is included with this permit. For HAP-emitting operations not

addressed by this reference, emission factors shall be taken from U.S. EPA's AP-42 document. For the purposes of these emission calculations, HAP monomer in resins and gel coats that is not styrene or methyl methacrylate shall be considered as styrene on an equivalent weight basis.

- (2) The HAP monomer content of resins and gel coats used shall be limited to the following or their equivalent on an emissions mass basis:

Type of Gel Coat or Resin	HAP monomer content % by weight
Production ¹ Gel Coat	37
Tooling ² Gel Coat	38
Production Resin	35
Tooling Resin	43

¹ Production refers to the manufacture of parts.

² Tooling refers to the manufacture of the molds from which parts are manufactured.

HAP monomer contents shall be calculated on a neat basis, which means excluding any filler. Compliance with these HAP monomer content limits shall be demonstrated on a monthly basis.

Gel coats or resins with HAP monomer contents lower than those specified in the table in this subsection or additional emission reduction techniques approved by IDEM, OAM may be used to offset the use of gel coats or resins with HAP monomer contents higher than those specified in the table in this subsection. This is allowed to meet the HAP monomer content limits for resins and gel coats and shall be calculated on an equivalent emissions mass basis as shown below:

(Emissions from higher than compliant HAP monomer content resin or gel coat) - (Emissions from compliant resin or gel coat) # (Emissions from compliant resin or gel coat) - (Emissions from lower than compliant resin or gel coat and/or using other emission reduction techniques).

Where: Emissions, lb or ton = M (Mass of resin or gel coat used, lb or ton) * EF (HAP monomer emission factor for resin or gel coat used);

EF, HAP monomer emission factor = emission factor, expressed as pounds (lbs) VOC or HAP emitted per ton of resin/gel coat processed, which is indicated by the HAP monomer content, method of application, and other emission reduction techniques for each resin and gel coat used.

- (3) Non-atomized spray application technology shall be used to apply unfilled production resins. Non-atomized spray application technology includes flow coaters, flow choppers, pressure-fed rollers, or other non-spray applications of a design and specifications approved by IDEM, OAM.

If it is not possible to apply a portion of unfilled resins with non-atomized spray application technology, equivalent emissions reductions must be obtained via use of other emission reduction techniques. Examples of other emission reduction techniques include, but are not limited to, lower HAP monomer content resins and gel coats, closed molding, vapor suppression, vacuum bagging/bonding, or installing a control device.

- (4) Optimized spray techniques according to a manner approved by IDEM, OAM shall be used for the application of all gel coats and filled resins (where fillers are required for corrosion or fire retardant purposes) at all gel coat booth production operations. Optimized spray techniques include, but are not limited to, the use of airless, air assisted airless, high volume low pressure (HVLV), or other spray applicators demonstrated to the satisfaction of IDEM, OAM, to be equivalent to the spray applicators listed above.

HVLV spray is the technology used to apply material to substrate by means of application equipment that operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

- (5) The listed work practices shall be followed:
- (A) To the extent possible, non-VOC, non-HAP solvent shall be used for cleanup.
 - (B) For VOC and/or HAP containing materials:
 - (i) Cleanup solvent containers shall be used to transport solvent from drums to work.
 - (ii) Cleanup stations shall be closed containers having soft gasketed spring-loaded closures and shall be kept completely closed when not in use.
 - (iii) Cleanup rags saturated with solvent shall be stored, transported, and disposed of in containers that are closed tightly.
 - (iv) The spray guns used shall be the type that can be cleaned without the need for spraying the solvent into the air.
 - (v) All solvent sprayed during cleanup or resin changes shall be directed into containers. Such containers shall be closed as soon as solvent spraying is complete and the waste solvent shall be disposed of in such a manner that evaporation is minimized.
 - (vi) Storage containers shall be kept covered when not in use.
- (d) Operation Condition 4 from CP 039-4027-00065, issued on February 20, 1995, which states that the total amount of volatile organic compounds (VOC) delivered to the coater head of the facility covered in that permit shall not exceed 3.31 tons per month for the first year and 39.8 tons per year on a 12 month rolling average thereafter, and, therefore, the Prevention of Emission Offset Rules, 326 IAC 2-3 and 40 CFR 52.21, will not apply, is not applicable because, in Condition D.1.1(b), the entire source is limited so that VOC emissions are less than 250 tons per year. Therefore, the source is a minor source pursuant to 326 IAC 2-2,

Prevention of Significant Deterioration. Operation Condition 4 from CP 039-4027-00065, issued on February 20, 1995, required that VOC input to the coater head shall be determined by multiplying the material input times the weight percent VOC times the following flash off factors:

Material	Flash off Factor
Gelcoats	35.0%
Vapor suppressed Resins	9.0%
Acetone	100.0%
Primer	100.0%
Frekote FRP-NC	100.0%

This part of that condition is also not applicable.

- (e) Operation Condition 5 from CP 039-4027-00065, issued on February 20, 1995, stating that compliance with 326 IAC 8-1-6 shall be accomplished by using vapor suppressed resin in lamination process continuously to manufacture fiberglass running boards for trucks and vans and other miscellaneous parts, using HVLP (high volume, low pressure applicators) chopper guns in lamination process, and substituting super flush compound for acetone in cleaning hand tools and spray guns, is not applicable because the source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation, which is (c) of this condition.
- (f) Operation Condition 4 from CP 039-2881-00065, issued on March 22, 1993, requiring that total emissions of volatile organic compounds (VOC) from the gelcoat and lamination booths shall be limited to 24.0 tons per year, based on a twelve month average rolled on a monthly basis, is not applicable because the source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation, which is (c) of this condition.
- (g) Conditions 4, 7 and 8 of OP 20-06-90-0662, issued on October 20, 1987, stating that there are no limits in 325 IAC 8 applicable to the facilities listed therein, total volatile organic compound emissions shall be limited to 58 tons, and volatile organic compound emissions from Building No. 204 equipment shall be limited to 24.9 tons per year to comply with the provisions of 325 IAC 8-1.1, Section 6, are not applicable because the source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation, which is (c) of this condition.
- (h) The sentence in OP 20-06-86-0605, issued on November 5, 1982, which states that Rule 325 IAC 8 does not have limits applicable to the facilities listed therein and Condition 5 of that permit, which states that volatile organic compound emissions shall be limited to 33 tons per year, are not applicable because the source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation, which is (c) of this permit.

D.1.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

- (a) The PM from the fiberglass reinforced plastic parts manufacturing operations shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation and extrapolation 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:

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

- (b) The PM from the surface coating shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation and extrapolation 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:

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

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)]

D.1.4 Testing Requirements [326 IAC 2-7-6(1)] [326 IAC 2-1.1-11]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.5 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAM, 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 VOC Emissions

Compliance with Condition D.1.1 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound usage for the most recent twelve (12) month period.

D.1.7 Particulate Matter (PM)

The dry filters for PM control shall be in operation at all times when the fiberglass operations are in operation.

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

D.1.8 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the fiberglass reinforced plastic parts manufacturing operations stacks (V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) Monthly inspections shall be performed of the fiberglass reinforced plastic parts manufacturing operations and surface coating operations emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan

for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

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

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the volatile organic compound usage limits and the volatile organic HAP content limits established in Condition D.1.1.
 - (1) The amount, VOC content and volatile organic HAP content of each resin, gelcoat, and coating. 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;
 - (2) A log of the dates of use;
 - (3) The HAP monomer content for resins and gelcoats calculated on an equivalent mass basis for each month in which noncompliant resins or gelcoats are used.
 - (4) The VOC and HAP containing cleanup solvent usage for each month;
 - (5) The total VOC and volatile organic HAP usage for each month; and
 - (6) The weight of VOCs and volatile organic HAPs emitted for each compliance period.
- (b) To document compliance with Condition D.1.7 and D.1.8 the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (c) Grinding operations, identified as EU-2, for finishing fiberglass reinforced plastic parts, constructed in 1993, equipped with dry filters, exhausting to stacks V6, V7, V8, V12, EF6, and EF15, average maximum capacity: 1,270 pounds per hour.

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

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

D.2.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the grinding operations shall not exceed 3.02 pounds per hour when operating at a process weight rate of 1,270 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

Compliance Determination Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)]

D.2.2 Testing Requirements [326 IAC 2-7-6(1)] [326 IAC 2-1.1-11]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.3 Particulate Matter (PM)

The dry filters for PM control shall be in operation and control emissions from the grinding operations at all times that the grinders are in operation.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (b) Woodworking operations, equipped with a baghouse dust control system, with a flow rate of less than 4,000 cubic feet per minute. [326 IAC 6-3-2]

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

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

D.3.1 Volatile Organic Compounds [326 IAC 2-2] [40 CFR 52.21]

Any change or modification that increases VOC emissions from the insignificant activities to more than 5 tons per year may cause the requirements of 326 IAC 2-2, Prevention of Significant Deterioration, and 40 CFR 52.21 to be applicable and shall require prior IDEM, OAM approval.

D.3.2 Particulate Matter Limitation (PM) [326 IAC 6-3-2(c)]

The PM from the brazing equipment, cutting torches, soldering equipment, welding equipment and woodworking operations shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation and extrapolation 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

Compliance Determination Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)]

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

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Prodesign Composites
Source Address: 300 York Drive, Middlebury, Indiana 46540
Mailing Address: P.O. Box 319, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-6917-00065

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:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 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 MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Prodesign Composites
Source Address: 300 York Drive, Middlebury, Indiana 46540
Mailing Address: P.O. Box 319, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-6917-00065

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
<input checked="" type="radio"/>	1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
<input checked="" type="radio"/>	2. This is a deviation, reportable per 326 IAC 2-7-5(3)(C) C The Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? 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/deviation:
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: _____

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

Part 70 Quarterly Report

Source Name: Prodesign Composites
Source Address: 300 York Drive, Middlebury, Indiana 46540
Mailing Address: P.O. Box 319, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-6917-00065
Facility: Surface Coating Operations and Insignificant VOC usage
Parameter: Volatile organic compound (VOC) usage
Limit: Total VOC emissions of less than 249 tons per consecutive 12 month period, total with fiberglass operations

YEAR: _____

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

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.

Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

**PART 70 OPERATING PERMIT
QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Prodesign Composites
Source Address: 300 York Drive, Middlebury, Indiana 46540
Mailing Address: P.O. Box 319, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-6917-00065

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for a Part 70 Operating Permit

Source Name:	Prodesign Composites
Source Location:	300 York Drive, Middlebury, Indiana 46540
County:	Elkhart
SIC Code:	3089
Operation Permit No.:	T 039-6917-00065
Permit Reviewer:	CarrieAnn Ortolani

On March 18, 2000, the Office of Air Management (OAM) had a notice published in the Elkhart Truth, Elkhart, Indiana, stating that Prodesign Composites had applied for a Part 70 Operating Permit to operate a fiberglass reinforced plastic composite parts manufacturing source with dry filters as control. The notice also stated that OAM proposed to issue a Part 70 Operating Permit for this operation and provided information on how the public could review the proposed Part 70 Operating Permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Part 70 Operating Permit should be issued as proposed.

On April 18, 2000, Kevin Gipson of Prodesign submitted comments on the proposed Part 70 Operating Permit. The comments are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.

Comment 1:

Condition A.2(a) Emissions Units and Pollution Control Equipment Summary

To accurately depict the process units at this source, please change the unenforceable descriptive information contained in this condition to "Fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, equipped with mechanical, non-atomized flow coaters for resin application and high volume, low pressure (HVLP) spray guns for gelcoats application and dry filters for overspray control, exhausting to stacks V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19, average maximum capacity: 1,270 pounds per hour of resin and gelcoat."

This change in descriptive information is for clarification purposes only and will not affect this source's permitted emissions limit.

Response 1:

Since emissions from these processes are limited, the descriptive information in (a) of Section A.2 has been revised as follows:

- (a) Fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, equipped with mechanical, non-atomized flow coaters for resin application and high volume, low pressure (HVLP) spray guns for gelcoat application and dry filters for overspray control, exhausting to stacks V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19, **average maximum** capacity: ~~773.8~~ **1,270** pounds per hour **of resin and gelcoat**.

Comment 2:

Condition A.2(c) Emissions Units and Pollution Control Equipment Summary

In order to accurately depict source uniformity, please change the unenforceable descriptive information contained in this condition to "Grinding operations, identified as EU-2, for finishing fiberglass reinforced plastic parts exhausting to stacks V6, V7, V8, V12, EF6, and EF15, average maximum capacity: 1,270 pounds per hour."

Response 2:

Since emissions from this process is based on dry filter parameters that will not change as a result of this change, the descriptive information in (c) of Section A.2 has been revised as follows:

- (c) Grinding operations, identified as EU-2, for finishing fiberglass reinforced plastic parts, constructed in 1993, equipped with dry filters, exhausting to stacks V6, V7, V8, V12, EF6, and EF15, **average maximum** capacity: ~~707~~ **1,270** pounds per hour.

Comment 3:

Condition D.1.1(c)(5)(C) Volatile Organic Compounds - Work Practices

In order to limit the focus of the work practice to regulated pollutants, please modify this condition to add "VOC and/or HAP containing" so that it reads "All VOC and/or HAP containing material storage containers shall be kept covered when not in use."

Response 3:

Condition D.1.1(c)(5) has been revised as follows:

- (5) The listed work practices shall be followed:
 - (A) To the extent possible, non-VOC, non-HAP solvent shall be used for cleanup.
 - (B) For VOC and/or HAP containing materials:
 - (i) Cleanup solvent containers shall be used to transport solvent from drums to work.
 - (ii) Cleanup stations shall be closed containers having soft gasketed spring-loaded closures and shall be kept completely closed when not in use.
 - (iii) Cleanup rags saturated with solvent shall be stored, transported, and disposed of in containers that are closed tightly.
 - (iv) The spray guns used shall be the type that can be cleaned without the need for spraying the solvent into the air.
 - (v) All solvent sprayed during cleanup or resin changes shall be directed into containers. Such containers shall be closed as soon as solvent spraying is complete and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

(vi) **Storage containers shall be kept covered when not in use.**

(C) ~~All material storage containers shall be kept covered when not in use.~~

Comment 4:

Conditions D.1, D.2 Facility Operation Conditions

The changes in descriptive information of Condition A.2 listed in comments 1 and 2 should also be made to the Facility Descriptions in Condition D.1 and D.2.

Response 4:

Item (a) of the Facility Description Box in Section D.1 has been revised as follows:

- (a) Fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, equipped with mechanical, non-atomized flow coaters for resin application and high volume, low pressure (HVLP) spray guns for gelcoat application and dry filters for overspray control, exhausting to stacks V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19, **average maximum** capacity: ~~773.8~~ **1,270** pounds per hour **of resin and gelcoat**.

Item (c) of the Facility Description Box in Section D.2 has been revised as follows:

- (c) Grinding operations, identified as EU-2, for finishing fiberglass reinforced plastic parts, constructed in 1993, equipped with dry filters, exhausting to stacks V6, V7, V8, V12, EF6, and EF15, **average maximum** capacity: ~~707~~ **1,270** pounds per hour.

Comment 5:

Condition D.2.1 Particulate Matter

The language listed in Condition D.2.1 should reflect the standard language used in the IDEM Title V Model Permit document.

Response 5:

The language used in Condition D.2.1 is accurate and correct to describe the requirements of 326 IAC 6-3-2. As a result of Comment 2, Condition D.2.1 is revised as follows:

D.2.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the grinding operations shall not exceed ~~2.04~~ **3.02** pounds per hour when operating at a process weight rate of ~~707~~ **1,270** pounds per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

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

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: Prodesign Composites
Source Location: 300 York Drive, Middlebury, Indiana 46540
County: Elkhart
SIC Code: 3089
Operation Permit No.: T 039-6917-00065
Permit Reviewer: CarrieAnn Ortolani

The Office of Air Management (OAM) has reviewed a Part 70 permit application from Prodesign Composites, formerly VFP Composites, relating to the operation of a fiberglass reinforced plastic composite parts manufacturing source.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) Fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, equipped with mechanical, non-atomized flow coaters for resin application and high volume, low pressure (HVLP) spray guns for gelcoat application and dry filters for overspray control, exhausting to stacks V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19, capacity: 773.8 pounds per hour.
- (b) Surface coating operations, identified as EU-3, for coating fiberglass reinforced plastic parts, equipped with aerosol cans and high volume, low pressure (HVLP) spray guns, exhausting to stacks V4, V9, and V11, capacity: 12 fiberglass reinforced plastic parts per hour.
- (c) Grinding operations, identified as EU-2, for finishing fiberglass reinforced plastic parts, constructed in 1993, equipped with dry filters, exhausting to stacks V6, V7, V8, V12, EF6, and EF15, capacity: 707 pounds per hour.

Unpermitted Emission Units and Pollution Control Equipment

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

New Emission Units and Pollution Control Equipment Receiving Prior Approval

There are no new facilities proposed at this source during this review process.

Insignificant Activities

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

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (b) Woodworking operations, equipped with a baghouse dust control system, with a flow rate of less than 4,000 cubic feet per minute. [326 IAC 6-3-2]
- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (d) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
 - (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (e) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mmHg; or 0.3 psi measured at 38EC (100EF); or
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mmHg; or 0.1 psi measured at 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (f) Any operation using aqueous solutions containing less than one percent (1%) by weight of VOCs excluding HAPs.
- (g) Water based adhesives that are less than or equal to five percent (5%) by volume of VOCs excluding HAPs.
- (h) Paved and unpaved roads and parking lots with public access.
- (i) On-site fire and emergency response training approved by the department.
- (j) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kiloPascals measured at 38EC).

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) OP 20-06-86-0605, issued on November 5, 1982;
- (b) OP 20-06-90-0662, issued on October 20, 1987;
- (c) CP 039-2882-00065, issued on March 22, 1993; and
- (d) CP 039-4027-00065, issued on February 20, 1995.

All conditions from previous approvals were incorporated into this Part 70 permit except the following:

- (a) CP 039-4027-00065, issued on February 20, 1995

Operation Condition 4: That the total amount of volatile organic compounds (VOC) delivered to the coater head shall not exceed 3.31 tons per month for the first year and 39.8 tons per year on a 12 month rolling average thereafter. Therefore, the Prevention of Emission Offset Rules, 326 IAC 2-3 and 40 CFR 52.21, will not apply. VOC input to the coater head shall be determined by multiplying the material input times the weight percent VOC times the following flash off factors.

Material	Flash off Factor
Gelcoats	35.0%
Vapor suppressed Resins	9.0%
Acetone	100.0%
Primer	100.0%
Frekote FRP-NC	100.0%

Reason not incorporated:

In the Part 70 Operating Permit, the entire source will be limited so that VOC emissions are less than 250 tons per year. Therefore, the source is a minor source pursuant to 326 IAC 2-2, Prevention of Significant Deterioration.

- (b) CP 039-4027-00065, issued on February 20, 1995

Operation Condition 5: That compliance with 326 IAC 8-1-6 shall be accomplished by:

- a) Using vapor suppressed resin in lamination process continuously to manufacture fiberglass running boards for trucks and vans and other miscellaneous parts
- b) Using HVLP (high volume, low pressure applicators) chopper guns in lamination process and
- c) Substituting super flush compound for acetone in cleaning hand tools and spray guns.

Reason not incorporated:

The source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation. Therefore, the best available control technology (BACT), pursuant to 326 IAC 8-1-6, will be updated to include contemporary control measures and emission limitations.

- (c) CP 039-2881-00065, issued on March 22, 1993

Operation Condition 4: That total emissions of volatile organic compounds (VOC) from the gelcoat and lamination booths shall be limited to 24.0 tons per year, based on a twelve month average rolled on a monthly basis. During the first 12 months of operation, VOC usage shall be limited such that, the total VOC used divided by months of operation shall not exceed 2.0 tons per month. Therefore, the New Facilities; General Reduction Requirements, 326 IAC 8-1-6, will not apply.

Reason not incorporated:

The source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation. Therefore, the requirements of 326 IAC 8-1-6 will be applicable. The best available control technology (BACT), will include contemporary control measures and emission limitations.

- (d) OP 20-06-90-0662, issued on October 20, 1987

Condition 4: That there are no limits in 325 IAC 8 applicable to the facilities listed herein.

And

Condition 7: That total volatile organic compound emissions shall be limited to 58 tons.

And

Condition 8: That volatile organic compound emissions from Building No. 204 equipment shall be limited to 24.9 tons per year to comply with the provisions of 325 IAC 8-1.1, Section 6.

Reason not incorporated:

The source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation. Therefore, the requirements of 326 IAC 8-1-6 (325 IAC 8-1-6, when OP 20-06-90-0662 was issued) will be applicable. The best available control technology (BACT), will include contemporary control measures and emission limitations.

- (e) OP 20-06-86-0605, issued on November 5, 1982

Rule 325 IAC 8 does not have limits applicable to the facilities listed herein.

And

Condition 5: That volatile organic compound emissions shall be limited to 33 tons per year.

Reason not incorporated:

The source has requested that individual emission limitations be lifted and all fiberglass processes will be limited in this permit under a single limitation. Therefore, the requirements of 326 IAC 8-1-6 (325 IAC 8-1-6, when OP 20-06-86-0605 was issued) will be applicable. The best available control technology (BACT), will include contemporary control measures and emission limitations.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

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

An administratively complete Part 70 permit application for the purposes of this review was received on October 15, 1996. An updated application was received on September 7, 1999. Additional information was received on July 7, 1999 and February 4, 2000.

A notice of completeness letter was mailed to the source on October 29, 1996.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 4 of 4).

Potential To Emit

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

Pollutant	Potential To Emit (tons/year)
PM	217
PM ₁₀	217
SO ₂	1.00
VOC	313
CO	2.00
NO _x	2.00

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAPs	Potential To Emit (tons/year)
Toluene	9.78
MIBK	0.412
Glycol Ethers	0.165
Xylene	0.789
MEK	4.05

HAPs	Potential To Emit (tons/year)
Styrene	259
Methyl methacrylate	11.4
Benzene	2.82
TOTAL	288

- (a) The potentials to emit (as defined in 326 IAC 2-1.1-1(16)) of PM₁₀ and VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1993 OAM emission data. According to the 1993 OAM emission data, the source was a major source of VOC pursuant to 326 IAC 2-2, Prevention of Significant Deterioration. Since this permit will limit the source to a potential to emit of less than 250 tons of VOC per year, the source will be a minor source of VOC pursuant to 326 IAC 2-2. According to the potential to emit of the entire source, as calculated in Appendix A of this document, the emissions from 1993 do not reflect the current source.

Pollutant	Actual Emissions (tons/year)
PM	0.007
PM ₁₀	4.50
SO ₂	0.00
VOC	1,091
CO	0.00
NO _x	0.00
HAP (Styrene)	117

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Fiberglass Reinforced Plastics Operations, surface coating and insignificant VOC usage	14.0	14.0	0.00	< 249	0.00	0.00	< 249
Grinding	8.69	8.69	0.00	0.00	0.00	0.00	0.00
Insignificant Activities, excluding VOC usage	5.00	5.00	1.00	1.0	2.00	2.00	1.00
Total Emissions	27.7	27.7	1.00	< 250	2.00	2.00	< 250

County Attainment Status

The source is located in Elkhart County.

Pollutant	Status
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Elkhart County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 326 IAC 20; 40 CFR Part 61 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

Since the potential to emit VOC is 250 tons per year or more, this source can be a major source pursuant to 326 IAC 2-2, Prevention of Significant Deterioration. Pursuant to 326 IAC 8-1-6, the Best Available Control Technology (BACT) for the fiberglass operations limits VOC emissions to less than 249 tons per year. The VOC emissions from the total of all fiberglass reinforced plastic manufacturing operations, surface coating and insignificant VOC usage will also be limited to less than 249 tons per consecutive 12 month period. Therefore, the potential to emit VOC from the entire source will be less than 250 tons per year, including 1.0 ton of VOC per year from the insignificant combustion, and, thus, the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year VOC in Elkhart County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Opacity Emissions 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 this permit:

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

State Rule Applicability - Individual Facilities

326 IAC 2-4.1-1 (New Source Toxics Control)

Since construction of each facility at this source commenced prior to July 27, 1997, the requirements of 326 IAC 2-4.1-1 are not applicable.

326 IAC 6-3-2 (Process Operations)

- (a) The particulate matter (PM) from the fiberglass reinforced plastic parts manufacturing operations, identified as EU-1, shall be limited by the following:

Interpolation and extrapolation 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 dry filters shall be in operation at all times the surface coating operations are in operation, in order to comply with this limit.

- (b) The particulate matter (PM) from the surface coating operations, identified as EU-3, shall be limited by the following:

Interpolation and extrapolation 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 dry filters shall be in operation at all times the surface coating operations are in operation, in order to comply with this limit.

- (c) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the grinding facilities, identified as EU-2, shall not exceed 2.04 pounds per hour when operating at a process weight rate of 707 pounds per hour, each.

The dry filters connected to each of the grinding facilities shall be in operation at all times the grinding is in operation, in order to comply with this limit. The PM emissions from the total of all grinding operations after controls are 1.98 pounds per hour, which is less than the allowable PM emission rate of 2.04 pounds per hour. Therefore, each of the grinding facilities are in compliance with this rule.

- (d) The PM from the insignificant brazing equipment, cutting torches, soldering equipment, welding equipment and woodworking operations shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation and extrapolation 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 8-1-6 (New Facilities; General reduction requirements)

- (a) The requirements of 326 IAC 8-1-6 are not applicable to the surface coating operations, identified as EU-3 because the potential to emit VOC from these facilities is less than 25 tons per year.
- (b) The requirements of 326 IAC 8-1-6 are applicable to the fiberglass reinforced plastic parts manufacturing operations. Each fiberglass reinforced plastic part manufacturing facility previously limited emissions to make the requirements of 326 IAC 8-1-6 not applicable or to comply with the requirements of 326 IAC 8-1-6. Due to the fiberglass reinforced plastic emission factors adapted by IDEM, OAM in 1998 and the complexity of the source, the applicant requested that all individual VOC usage and VOC emission limitations be removed. Thus, the requirements of 326 IAC 8-1-6 are applicable and the source will be required to use the best available control technology (BACT) for the fiberglass reinforced plastic parts manufacturing operations. The BACT has been presumptively determined to be the following:

- (1) The use of gel coats and resins shall be limited such that the potential to emit (PTE) volatile organic compounds (VOC) from use of such resins and gel coats shall be less than 249 tons per consecutive twelve (12) month period. Compliance with this limit shall be determined based upon the following criteria:
- (A) Monthly usage by weight, monomer content that is VOC, method of application, and other emission reduction techniques for each gel coat and resin shall be recorded. Volatile organic compound emissions shall be calculated by multiplying the usage of each gel coat and resin by the emission factor that is appropriate for the monomer content, method of application and other emission reduction techniques for each gel coat and resin, and summing the emissions for all gel coats and resins. Emission factors shall be obtained from the reference approved by IDEM, OAM.
 - (B) The emission factors approved for use by IDEM, OAM shall be taken from the following reference: "Unified Emission Factors for Open Molding of Composites," Composites Fabricators Association, April 1999, with the exception of the emission factors for controlled spray application. This reference is included with this permit. For HAP-emitting operations not addressed by this reference, emission factors shall be taken from U.S. EPA's AP-42 document. For the purposes of these emission calculations, HAP monomer in resins and gel coats that is not styrene or methyl methacrylate shall be considered as styrene on an equivalent weight basis.
- (2) The HAP monomer content of resins and gel coats used shall be limited to the following or their equivalent on an emissions mass basis:

Type of Gel Coat or Resin	HAP monomer content, % by weight
Production ¹ Gel Coat	37
Tooling ² Gel Coat	38
Production Resin	35
Tooling Resin	43

¹ Production refers to the manufacture of parts.

² Tooling refers to the manufacture of the molds from which parts are manufactured.

HAP monomer contents shall be calculated on a neat basis, which means excluding any filler. Compliance with these HAP monomer content limits shall be demonstrated on a monthly basis.

Gel coats or resins with HAP monomer contents lower than those specified in the table in this subsection or additional emission reduction techniques approved by IDEM, OAM may be used to offset the use of gel coats or resins with HAP monomer contents higher than those specified in the table in this subsection. This is allowed to meet the HAP monomer content limits for resins and gel coats and shall be calculated on an equivalent emissions mass basis as shown below:

(Emissions from higher than compliant HAP monomer content resin or gel coat) -
 (Emissions from compliant resin or gel coat) # (Emissions from compliant resin or
 gel coat) - (Emissions from lower than compliant resin or gel coat and/or using other

emission reduction techniques).

Where: Emissions, lb or ton = M (Mass of resin or gel coat used, lb or ton)
* EF (HAP monomer emission factor for resin or gel coat used);

EF, HAP monomer emission factor = emission factor, expressed as pounds (lbs) VOC or HAP emitted per ton of resin/gel coat processed, which is indicated by the HAP monomer content, method of application, and other emission reduction techniques for each resin and gel coat used.

- (3) Non-atomized spray application technology shall be used to apply unfilled production resins. Non-atomized spray application technology includes flow coaters, flow choppers, pressure-fed rollers, or other non-spray applications of a design and specifications approved by IDEM, OAM.

If it is not possible to apply a portion of unfilled resins with non-atomized spray application technology, equivalent emissions reductions must be obtained via use of other emission reduction techniques. Examples of other emission reduction techniques include, but are not limited to, lower HAP monomer content resins and gel coats, closed molding, vapor suppression, vacuum bagging/bonding, or installing a control device.

- (4) Optimized spray techniques according to a manner approved by IDEM, OAM shall be used for the application of all gel coats and filled resins (where fillers are required for corrosion or fire retardant purposes) at all gel coat booth production operations. Optimized spray techniques include, but are not limited to, the use of airless, air assisted airless, high volume low pressure (HVLP), or other spray applicators demonstrated to the satisfaction of IDEM, OAM, to be equivalent to the spray applicators listed above.

HVLP spray is the technology used to apply material to substrate by means of application equipment that operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

- (5) The listed work practices shall be followed:
- (A) To the extent possible, non-VOC, non-HAP solvent shall be used for cleanup.
- (B) For VOC and/or HAP containing materials:
- (i) Cleanup solvent containers shall be used to transport solvent from drums to work.
- (ii) Cleanup stations shall be closed containers having soft gasketed spring-loaded closures and shall be kept completely closed when not in use.
- (iii) Cleanup rags saturated with solvent shall be stored, transported, and disposed of in containers that are closed tightly.

- (iv) The spray guns used shall be the type that can be cleaned without the need for spraying the solvent into the air.
 - (v) All solvent sprayed during cleanup or resin changes shall be directed into containers. Such containers shall be closed as soon as solvent spraying is complete and the waste solvent shall be disposed of in such a manner that evaporation is minimized.
- (C) All material storage containers shall be kept covered when not in use.

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

The requirements of 326 IAC 8-2-9 do not apply, because there is no metal coating at this source.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also 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:

- (a) For the fiberglass reinforced plastics manufacturing operations:
 - (1) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the fiberglass reinforced plastic parts manufacturing operations stacks (V1, V2, V3, V5, V10, EF1-EF5, EF7-EF14, and EF16-EF19) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
 - (2) Monthly inspections shall be performed of the fiberglass reinforced plastic parts manufacturing operations emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition

exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (3) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the dry filters must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-7 (Part 70).

- (b) For the surface coating operations:
 - (1) Monthly inspections shall be performed of the coating emissions from the stacks (V4, V9, and V11) and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
 - (2) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics greater than those that constitute major source applicability according to Section 112 of the 1990 Clean Air Act Amendments.
- (b) See attached calculations for detailed air toxic calculations. (Page 3 of 4)

Conclusion

The operation of this fiberglass reinforced plastic composite parts manufacturing source shall be subject to the conditions of the attached proposed **Part 70 Permit No. T 039-6917-00065**.

**Appendix A: Emission Calculations
Grinding Operations**

Company Name: Prodesign Composites
Address City IN Zip: 300 York Drive, Middlebury, Indiana 46540
Part 70 Operating Permit: 039-6917
Pit ID: 039-00065
Reviewer: CarrieAnn Ortolani
Date: October 15, 1996

Emission Unit	Stack	Flow Rate (acfm)	Stack temperature (deg. F)	Outlet Grain Loading (gr/acf)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)	Control Efficiency	Potential Emissions (lbs/hr)	Potential Emissions (tons/yr)
Grinding EU-2									
Dry filters	V6	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	V7	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	V8	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	V12	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	EF6	18000	68	0.002	0.309	1.35	90.0%	3.09	13.5
Dry filters	EF15	18135	68	0.002	0.311	1.36	90.0%	3.11	13.6
					1.98	8.69		19.8	86.9

Process Weight Rate (lbs/hr)	Allowable Emissions (lbs/hr)
707	2.04

Methodology

Controlled Emissions (lbs/hr) = gr/acf x acfm x 60 minutes/hr / 7000 gr/lb
 Uncontrolled Emissions (lbs/hr) = Controlled Emissions (lbs/hr) / (1 - Control Efficiency)
 Emissions (tons/yr) = Emissions (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton
 Allowable Emissions (lbs/hr) = 4.10 x (Process weight (lbs/hr) / 2000 lbs/ton)^0.67 [326 IAC 6-3-2]

**Appendix A: Emission Calculations
Grinding Operations**

Company Name: Prodesign Composites
Address City IN Zip: 300 York Drive, Middlebury, Indiana 46540
Part 70 Operating Permit: 039-6917
Pit ID: 039-00065
Reviewer: CarrieAnn Ortolani
Date: October 15, 1996

Emission Unit	Stack	Flow Rate (acfm)	Stack temperature (deg. F)	Outlet Grain Loading (gr/acf)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)	Control Efficiency	Potential Emissions (lbs/hr)	Potential Emissions (tons/yr)
Grinding EU-2									
Dry filters	V6	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	V7	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	V8	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	V12	19900	68	0.002	0.341	1.49	90.0%	3.41	14.9
Dry filters	EF6	18000	68	0.002	0.309	1.35	90.0%	3.09	13.5
Dry filters	EF15	18135	68	0.002	0.311	1.36	90.0%	3.11	13.6
					1.98	8.69		19.8	86.9

Process Weight Rate (lbs/hr)	Allowable Emissions (lbs/hr)
707	2.04

Methodology

Controlled Emissions (lbs/hr) = gr/acf x acfm x 60 minutes/hr / 7000 gr/lb
 Uncontrolled Emissions (lbs/hr) = Controlled Emissions (lbs/hr) / (1 - Control Efficiency)
 Emissions (tons/yr) = Emissions (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton
 Allowable Emissions (lbs/hr) = 4.10 x (Process weight (lbs/hr) / 2000 lbs/ton)^0.67 [326 IAC 6-3-2]

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

Company Name: Prodesign Composites
Address City IN Zip: 300 York Drive, Middlebury, Indiana 46540
Part 70 Operating Permit: 039-6917
Pit ID: 039-00065
Reviewer: CarrieAnn Ortolani
Date: October 15, 1996

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC (pounds per hour)	Potential VOC (pounds per day)	Potential VOC (tons per year)	Particulate Potential (tons/yr)	lbs VOC/gal solids	Transfer Efficiency
Aerosol Paint - Spray n' go	6.67	88.00%	0.0%	88.0%	0.0%	10.00%	0.04500	12.000	5.87	5.87	3.17	76.07	13.88	1.70	58.70	10%
Acrylic Lacquer Thinner	6.82	100.00%	0.0%	100.0%	0.0%	0.00%	0.02300	12.000	6.82	6.82	1.88	45.18	8.24	0.00	n/a	75%
State Potential Emissions									Control Efficiency	0.00%						
Add worst case coating to all solvents									Uncontrolled		5.05	121	22.1	1.70		
									Controlled		5.05	121	22.1	1.70		

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
 Total = Worst Coating + Sum of all solvents used

Appendix A: Emission Calculations
HAP Emission Calculations

Company Name: Prodesign Composites
Address City IN Zip: 300 York Drive, Middlebury, Indiana 46540
Part 70 Operating Permit: 039-6917
Pit ID: 039-00065
Reviewer: CarrieAnn Ortolani
Date: October 15, 1996

Material	Density (lbs/gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	CFA Unified Emission Factor (lbs/ton)	Weight % Toluene	Weight % MIBK	Weight % Glycol Ethers	Weight % Xylene	Weight % MEK	Weight % Styrene	Weight % Methyl methacrylate	Weight % Benzene	Toluene Emissions (tons/yr)	MIBK Emissions (tons/yr)	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	MEK Emissions (tons/yr)	Styrene Emissions (tons/yr)	Methyl methacrylate Emissions (tons/yr)	Benzene Emissions (tons/yr)
Aerosol Paint - Spray n' go	6.67	0.045	12.0	N/A	20.00%	0.00%	0.00%	5.00%	10.00%	0.00%	0.00%	0.00%	3.16	0.00	0.00	0.79	1.58	0.00	0.00	0.00
Acrylic Lacquer Thinner	6.82	0.023	12.0	N/A	51.00%	5.00%	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.20	0.41	0.16	0.00	0.00	0.00	0.00	0.00
RESIN																				
COR 61-AA-825S Resin	10.84	5.75	12.0	72.50	0.00%	0.00%	0.00%	0.00%	0.00%	33.50%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	118.76	0.00	0.00
GELCOAT																				
85-801670 Black tooling gel	9.87	1.17	12.0	501	0.00%	0.00%	0.00%	0.00%	0.00%	36.97%	3.00%	0.00%	0.00	0.00	0.00	0.00	0.00	140.62	11.41	0.00
89-110380 Polyester gelcoat	10.51	1.17	12.0	277	0.00%	0.00%	0.00%	0.00%	0.00%	30.70%	0.00%	1.00%	0.00	0.00	0.00	0.00	0.00	86.69	0.00	2.82
PL131-53 Polyester gelcoat	11.20	1.17	12.0	253	0.00%	0.00%	0.00%	0.00%	0.00%	28.40%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	87.06	0.00	0.00
CATALYST																				
Lupersol DDM-9	8.37	0.013	12.0	N/A	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
OTHER MATERIALS																				
FK5109 FRP-NC	6.60	0.013	12.0	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FK1380-Poly Mold Cleaner	7.08	0.013	12.0	N/A	50.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	2.42	0.00	0.00	0.00	2.42	0.00	0.00	0.00

Total State Potential Emissions 9.78 0.412 0.165 0.789 4.05 259 11.4 2.82

METHODOLOGY

For Resin and Gel coat

HAPS emission rate (tons/yr) = (Density (lbs/gal) / 2000 lbs/ton) * Gal of Material (gal/unit) * Maximum (unit/hr) * (Weight % HAP/weight % total HAPs) * Emission Factor (lbs/gal) * 8760 hrs/yr * 1 ton/2000 lbs

For all other materials

HAPS emission rate (tons/yr) = Density (lbs/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs