INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Governor

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

TO: Interested Parties / Applicant

DATE: July 10, 2007

RE: Coachmen Recreational Vehicle, LLC Middlebury / 039-17984-00062

FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

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

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

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

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

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

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

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

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

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

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

Enclosures
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(317) 232-8603
(800) 451-6027
www.in.gov/idem

Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY

Coachmen Recreational Vehicle, LLC Middlebury
423 N. Main Street
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.

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

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

Operation Permit No.: T 039-17984-00062	
Issued by: *Original document signed by* Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: July 10, 2007 Expiration Date: July 10, 2012

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary travel trailer, camper and motor home manufacturing source.

Source Address:	423 N. Main Street, Middlebury, Indiana 46540
Mailing Address:	423 N. Main Street, Middlebury, Indiana 46540
General Source Phone Number:	(574) 825- 8493
SIC Code:	3792
County Location:	Elkhart
Source Location Status:	Nonattainment for 8-hour ozone Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Major Source, under Emission Offset 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) One (1) frame spray coating area (Plant 105) used to coat metal, identified as EU12, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame spray coating area, is considered an existing affected facility.

(b) Fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) used to coat metal, identified as EU14, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, all areas (all plants) exhausted through general ventilation systems. In addition, Plant 105 has two (2) painting booths and Plant 7 has one (1) painting booth, equipped with air-assisted airless and HVLP spray applicators with dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) thinning and reducing areas, are considered existing affected facilities.

(c) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of caulks and sealants used to coat plastic, wood and metal, identified as EU7, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(d) Fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating metal parts, identified as EU9, installed prior to 1972, equipped with airless or HVLP spray applicators and dry filters for overspray control, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per

hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) spray coating areas, are considered existing affected facilities.

(e) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives to metal parts, identified as EU3, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310 exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(f) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives to plastic parts, identified as EU8, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(g) Fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of plastic and metal product prior to application of decals, identified as EU10, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310, exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) manual product cleaning areas, are considered existing affected facilities.

(h) One (1) frame coating paint spray booth, identified as 220-01, installed in 2003, using a black HAPs-free enamel coating in Plant 7 used to coat metal parts, equipped with HVLP applicators and dry filters for overspray control, exhausted to stack S9, capacity: 1.00 vehicle per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame coating paint spray booth, is considered an existing affected facility.

(i) One (1) spray booth used to coat metal parts, identified as Plant 250 Touch-Up Repair Booth, installed in 2005, equipped with dry filters for overspray control, exhausted to stack S11, capacity: 0.75 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) spray booth, is considered an existing affected facility.

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):

Eight (8) woodworking areas (Plants 4, 7, 110, 201, 205, 210, 220, and 310), identified as EU16, with particulate for each area controlled by a cyclone and baghouse, exhausted through general building ventilation and having PM/PM_{10} emissions less than five (5) pounds per hour and twenty-five (25) pounds per day, total. [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 Definitions [326 IAC 2-7-1]

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

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

(a) This permit, T 039-17984-00062, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

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

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

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

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

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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Facsimile Number: 317-233-6865
Northern Regional Office phone: (574) 245-4870; fax: (574) 245-4877

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

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

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

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

(A) A description of the emergency;

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

(C) Corrective actions taken.

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

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

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

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

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

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

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

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

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

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

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

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

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

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

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

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

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

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

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

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

(a) All terms and conditions of permits established prior to T 039-17984-00062 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

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

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

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

Request for renewal shall be submitted to:

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

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

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

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

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

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

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

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

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

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

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

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

copy of this permit; and

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

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

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

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

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

(3) Any change in emissions; and

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

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

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

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

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

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

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

(b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and 326 IAC 2-3-2.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

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

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

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

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

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

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

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on March 1, 1997.

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

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

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

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

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

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an

excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

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

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

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

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

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

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

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

(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

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

The statement must be submitted to:

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

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

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

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

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

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

(c) If there is a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with the following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:

(A) A description of the project.

(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;

(ii) Projected actual emissions;

(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

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

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

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

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

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

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

(f) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq)), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

(g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).

(4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

(h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) One (1) frame spray coating area (Plant 105) used to coat metal, identified as EU12, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame spray coating area, is considered an existing affected facility.

(b) Fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) used to coat metal, identified as EU14, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, all areas (all plants) exhausted through general ventilation systems. In addition, Plant 105 has two (2) painting booths and Plant 7 has one (1) painting booth, equipped with air-assisted airless and HVLP spray applicators with dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) thinning and reducing areas, are considered existing affected facilities.

(c) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of caulks and sealants used to coat plastic, wood and metal, identified as EU7, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(d) Fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating metal parts, identified as EU9, installed prior to 1972, equipped with airless or HVLP spray applicators and dry filters for overspray control, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) spray coating areas, are considered existing affected facilities.

(e) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives to metal parts, identified as EU3, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310 exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(f) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives to plastic parts, identified as EU8, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(g) Fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of plastic and metal product prior to application of decals, identified as EU10, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310, exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) manual product cleaning areas, are considered existing affected facilities.

Facility Description [326 IAC 2-7-5(15)]: Surface Coating Operations - (continued)

(h) One (1) frame coating paint spray booth, identified as 220-01, installed in 2003, using a black HAPs-free enamel coating in Plant 7 used to coat metal parts, equipped with HVLP applicators and dry filters for overspray control, exhausted to stack S9, capacity: 1.00 vehicle per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame coating paint spray booth, is considered an existing affected facility.

(i) One (1) spray booth used to coat metal parts, identified as Plant 250 Touch-Up Repair Booth, installed in 2005, equipped with dry filters for overspray control, exhausted to stack S11, capacity: 0.75 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) spray booth, is considered an existing affected facility.

(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 (VOC) [326 IAC 2-2]

Pursuant to T 039-6922-00062, issued on June 9, 1999, the volatile organic compound (VOC) delivered to the applicators including clean-up solvents at the entire source including all insignificant activities shall not exceed 249 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit renders the requirements of 326 IAC 2-2 (PSD) not applicable.

D.1.2 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

(a) Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere of VOC in excess of three and five-tenths (3.5), excluding water, as delivered to the applicator, when coating metal in the fourteen (14) assembly areas for caulks and sealants, the fourteen (14) spray coating areas of undercoating, the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, and the frame coating paint spray booth, identified as EU7, EU9, EU12, EU14 and 220-01, respectively.

(b) Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

D.1.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, the fourteen (14) spray coating areas for the application of undercoating, the one (1) frame coating paint spray booth, and the one (1) spray booth, identified as EU12, EU14, EU9, 220-01, and Plant 250 Touch-Up Repair Booth, respectively, shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC content limit in Condition D.1.2 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings, used to coat metals, on a daily basis. This volume weighted average shall be determined by the following equation:

$$\frac{\sum_{c=1}^{n} \text{coating } c \text{ (gal)} \times \text{VOC content of } c \text{ (lbs/gal, less water)}}{\sum_{c=1}^{n} \text{coating } c \text{ (gal)}}$$

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Compliance with the VOC content and emission limitations contained in Conditions D.1.1 and D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.1.7 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 exhaust from the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, the fourteen (14) spray coating areas, the one (1) frame coating paint spray booth, and the one (1) spray booth, identified as EU12, EU14, EU9, 220-01, and Plant 250 Touch-Up Repair Booth, respectively, while one or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) Monthly inspections shall be performed of the coating emissions from the exhaust and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.8 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1), (2), (4), and (5) shall be taken monthly and (3) taken daily and shall be complete and sufficient to establish compliance with the VOC content limits and the VOC emission limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

(1) The VOC content of each coating material and solvent used.

(2) The amount of coating material and solvent less water used on monthly basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.

(3) The volume weighted VOC content of the coatings used for each day;

(4) The cleanup solvent usage for each month; and

(5) The total VOC usage for each month.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.

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

D.1.9 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

D.1.10 General Provisions Relating to NESHAP Subpart PPPP [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.4501, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Table 2 of 40 CFR Part 63, Subpart PPPP in accordance with the schedule in 40 CFR 63, Subpart PPPP.

D.1.11 NESHAP Requirements [40 CFR Part 63, Subpart PPPP]

Pursuant to CFR Part 63, Subpart PPPP, the Permittee shall comply with the provisions of 40 CFR Part 63.5780, for the one (1) frame spray coating area, fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of caulks and sealants, fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating, fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives, fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives, fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of product prior to application of decals, one (1) frame coating paint spray booth, and the one (1) spray booth, identified as EU12 , EU14, EU7, EU9, EU3, EU8, EU10, 220-01, and Plant 250 Touch-Up Repair Booth; all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed; all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation, as specified as follows:

What This Subpart Covers
§ 63.4480 What is the purpose of this subpart?

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

§ 63.4481 Am I subject to this subpart?

(a) Plastic parts and products include, but are not limited to, plastic components of the following types of products as well as the products themselves: Motor vehicle parts and accessories for automobiles, trucks, recreational vehicles; sporting and recreational goods; toys; business machines; laboratory and medical equipment; and household and other consumer products. Except as provided in paragraph (c) of this section, the source category to which this subpart applies is the surface coating of any plastic parts or products, as described in paragraph (a)(1) of this section, and it includes the subcategories listed in paragraphs (a)(2) through (5) of this section.

(1) Surface coating is the application of coating to a substrate using, for example, spray guns or dip tanks. When application of coating to a substrate occurs, then surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage. However, these activities do not comprise surface coating if they are not directly related to the application of the coating. Coating application with handheld, non-refillable aerosol containers, touch-up markers, marking pens, or the application of paper film or plastic film which may be pre-coated with an adhesive by the manufacturer are not coating operations for the purposes of this subpart.

(2) The general use coating subcategory includes all surface coating operations that are not automotive lamp coating operations, thermoplastic olefin (TPO) coating operations, or assembled on-road vehicle coating operations.

(3) The automotive lamp coating subcategory includes the surface coating of plastic components of the body of an exterior automotive lamp including, but not limited to, headlamps, tail lamps, turn signals, and marker (clearance) lamps; typical coatings used are reflective argent coatings and clear topcoats. This subcategory does not include the coating of interior automotive lamps, such as dome lamps and instrument panel lamps.

(4) The TPO coating subcategory includes the surface coating of TPO substrates; typical coatings used are adhesion promoters, color coatings, clear coatings and topcoats. The coating of TPO substrates on fully assembled on-road vehicles is not included in the TPO coating subcategory.

(5) The assembled on-road vehicle coating subcategory includes surface coating of fully assembled motor vehicles and trailers intended for on-road use, including, but not limited to: automobiles, light-duty trucks, heavy duty trucks, and busses that have been repaired after a collision or otherwise repainted; fleet delivery trucks; and motor homes and other recreational vehicles (including camping trailers and fifth wheels). This subcategory also includes the incidental coating of parts, such as radiator grilles, that are removed from the fully assembled on-road vehicle to facilitate concurrent coating of all parts associated with the vehicle. The assembled on-road vehicle coating subcategory does not include the surface coating of plastic parts prior to their attachment to an on-road vehicle on an original equipment manufacturer's (OEM) assembly line. The assembled on-road vehicle coating subcategory also does not include the use of adhesives, sealants, and caulks used in assembling on-road vehicles. Body fillers used to correct small surface defects and rubbing compounds used to remove surface scratches are not considered coatings subject to this subpart.

(b) You are subject to this subpart if you own or operate a new, reconstructed, or existing affected source, as defined in §63.4482, that uses 378 liters (100 gallons (gal)) per year, or more, of coatings that contain hazardous air pollutants (HAP) in the surface coating of plastic parts and products defined in paragraph (a) of this section; and that is a major source, is located at a major source, or is part of a major source of emissions of HAP. A major source of HAP emissions is any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit

any single HAP at a rate of 9.07 megagrams (Mg) (10 tons) or more per year or any combination of HAP at a rate of 22.68 Mg (25 tons) or more per year. You do not need to include coatings that meet the definition of non-HAP coating contained in §63.4581 in determining whether you use 378 liters (100 gallons) per year, or more, of coatings in the surface coating of plastic parts and products.

(c) This subpart does not apply to surface coating or a coating operation that meets any of the criteria of paragraphs (c)(1) through (16) of this section.

(1) A coating operation conducted at a facility where the facility uses only coatings, thinners and other additives, and cleaning materials that contain no organic HAP, as determined according to §63.3941(a).

(2) Surface coating operations that occur at research or laboratory facilities, or is part of janitorial, building, and facility maintenance operations, or that occur at hobby shops that are operated for noncommercial purposes.

(3) The surface coating of plastic parts and products performed on-site at installations owned or operated by the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State) or the National Aeronautics and Space Administration, or the surface coating of military munitions manufactured by or for the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State).

(4) Surface coating where plastic is extruded onto plastic parts or products to form a coating.

(5) Surface coating of magnet wire.

(6) In-mold coating operations or gel coating operations in the manufacture of reinforced plastic composite parts that meet the applicability criteria for reinforced plastics composites production (subpart WWWW of this part).

(7) Surface coating of plastic components of wood furniture that meet the applicability criteria for wood furniture manufacturing (subpart JJ of this part).

(8) Surface coating of plastic components of large appliances that meet the applicability criteria for large appliance surface coating (subpart NNNN of this part).

(9) Surface coating of plastic components of metal furniture that meet the applicability criteria for metal furniture surface coating (subpart RRRR of this part).

(10) Surface coating of plastic components of wood building products that meet the applicability criteria for wood building products surface coating (subpart QQQQ of this part).

(11) Surface coating of plastic components of aerospace vehicles that meet the applicability criteria for aerospace manufacturing and rework (40 CFR part 63, subpart GG).

(12) Surface coating of plastic parts intended for use in an aerospace vehicle or component using specialty coatings as defined in appendix A to subpart GG of this part.

(13) Surface coating of plastic components of ships that meet the applicability criteria for shipbuilding and ship repair (subpart II of this part).

(14) Surface coating of plastic using a web coating process that meets the applicability criteria for paper and other web coating (subpart JJJJ of this part).

(15) Surface coating of fiberglass boats or parts of fiberglass boats (including, but not limited to, the use of assembly adhesives) where the facility meets the applicability criteria for boat manufacturing (subpart VVVV of this part), except where the surface coating of the boat is a post-mold coating operation performed on personal watercraft or parts of personal watercraft. This subpart does apply to post-mold coating operations performed on personal watercraft and parts of personal watercraft.

(16) Surface coating of plastic components of automobiles and light-duty trucks that meet the applicability criteria in §63.3082(b) of the Surface Coating of Automobiles and Light-Duty Trucks NESHAP (40 CFR part 63, subpart IIII) at a facility that meets the applicability criteria in §63.3081(b).

(d) If your facility meets the applicability criteria in §63.3081(b) of the Surface Coating of Automobiles and Light-Duty Trucks NESHAP (40 CFR part 63, subpart IIII) and you perform surface coating of plastic parts or products that meets both the applicability criteria in §63.3082(c) and the applicability criteria of this subpart, then for the surface coating of any or all of your plastic parts or products that meets the applicability criteria in §63.3082(c), you may choose to comply with the requirements of subpart IIII of this part in lieu of complying with this subpart. Surface coating operations on plastic parts or products not intended for use in automobiles or light-duty trucks (for example, parts for motorcycles or lawn mowers) cannot be made part of your affected source under subpart IIII of this part.

(e) If you own or operate an affected source that meets the applicability criteria of this subpart and at the same facility you also perform surface coating that meets the applicability criteria of any other final surface coating NESHAP in this part, you may choose to comply as specified in paragraph (e)(1), (2), or (3) of this section.

(1) You may have each surface coating operation that meets the applicability criteria of a separate NESHAP comply with that NESHAP separately.

(2) You may comply with the emission limitation representing the predominant surface coating activity at your facility, as determined according to paragraphs (e)(2)(i) and (ii) of this section. However, you may not establish assembled on-road vehicle or automotive lamp coating operations as the predominant activity. You must not consider any surface coating activity that is subject to the Surface Coating of Automobiles and Light-Duty Trucks NESHAP (40 CFR part 63, subpart IIII) in determining the predominant surface coating activity at your facility.

(i) If a surface coating operation accounts for 90 percent or more of the surface coating activity at your facility (that is, the predominant activity), then compliance with the emission limitations of the predominant activity for all surface coating operations constitutes compliance with these and other applicable surface coating NESHAP. In determining predominant activity, you must include coating activities that meet the applicability criteria of other surface coating NESHAP and constitute more than 1 percent of total coating activities at your facility. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation.

(ii) You must use kilogram (kg) (pound (lb)) of solids used as a measure of relative surface coating activity over a representative period of operation. You may estimate the relative mass of coating solids used from parameters other than coating consumption and mass solids content (*e.g.,* design specifications for the parts or products coated and the number of items produced). The determination of predominant activity must accurately reflect current and projected coating operations and must be verifiable through appropriate documentation. The use of parameters other than coating consumption and mass solids content must be approved by the Administrator. You may use data for any reasonable time period of at least 1 year in determining the relative amount of coating activity, as long as they represent the way the source will continue to operate in the future and are approved by the Administrator. You must determine the predominant activity at your facility and submit the results of that determination with the initial notification required by §63.4510(b). You must also determine predominant activity annually and include the determination in the next semi-annual compliance report required by §63.4520(a).

(3) You may comply with a facility-specific emission limit calculated from the relative amount of coating activity that is subject to each emission limit. If you elect to comply using the facility-specific emission limit alternative, then compliance with the facility-specific emission limit and the emission limitations in this subpart for all surface coating operations constitutes compliance with this subpart and other applicable surface coating NESHAP. The procedures for calculating the facility-specific emission limit are specified in §63.4490. In calculating a facility-specific emission limit, you must include coating activities that meet the

applicability criteria of other surface coating NESHAP and constitute more than 1 percent of total coating activities at your facility. You must not consider any surface coating activity that is subject to the Surface Coating of Automobiles and Light-Duty Trucks NESHAP (40 CFR part 63, subpart IIII) in determining a facility-specific emission limit for your facility. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of total coating activities need not be included in the calculation of the facility-specific emission limit but must be included in the compliance calculations.

[69 FR 20990, Apr. 19, 2004, as amended at 69 FR 22660, April 26, 2004]

§ 63.4482 What parts of my plant does this subpart cover?

(a) This subpart applies to each new, reconstructed, and existing affected source within each of the four subcategories listed in §63.4481(a).

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

(1) All coating operations as defined in §63.4581;

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

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

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

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

§ 63.4483 When do I have to comply with this subpart?

The date by which you must comply with this subpart is called the compliance date. The compliance date for each type of affected source is specified in paragraphs (a) through (c) of this section. The compliance date begins the initial compliance period during which you conduct the initial compliance demonstration described in §§63.4540, 63.4550, and 63.4560.

(b) For an existing affected source, the compliance date is the date 3 years after April 19, 2004.

(d) You must meet the notification requirements in §63.4510 according to the dates specified in that section and in subpart A of this part. Some of the notifications must be submitted before the compliance dates described in paragraphs (a) through (c) of this section.

Emission Limitations
§ 63.4490 What emission limits must I meet?

(b) For an existing affected source, you must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (b)(1) through (4) of this section, except as specified in paragraph (c) of this section, determined according to the requirements in §63.4541, §63.4551, or §63.4561.
(1) For each existing general use coating affected source, limit organic HAP emissions to no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

§ 63.4491 What are my options for meeting the emission limits?

You must include all coatings (as defined in §63.4581), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in §63.4490. To make this determination, you must use at least one of the three compliance options listed in paragraphs (a) through (c) of this section. You may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group,

or to the entire affected source. You may use different compliance options for different coating operations, or at different times on the same coating operation. You may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, you may not use different compliance options at the same time on the same coating operation. If you switch between compliance options for any coating operation or group of coating operations, you must document this switch as required by §63.4530(c), and you must report it in the next semiannual compliance report required in §63.4520.

(a) *Compliant material option.* Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. You must meet all the requirements of §§63.4540, 63.4541, and 63.4542 to demonstrate compliance with the applicable emission limit using this option.

§ 63.4492 What operating limits must I meet?

(a) For any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any operating limits.

§ 63.4493 What work practice standards must I meet?

(a) For any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any work practice standards.

General Compliance Requirements
§ 63.4500 What are my general requirements for complying with this subpart?

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

(1) Any coating operation(s) for which you use the compliant material option or the emission rate without add-on controls option, as specified in §63.4491(a) and (b), must be in compliance with the applicable emission limit in §63.4490 at all times.

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

Notifications, Reports, and Records
§ 63.4510 What notifications must I submit?

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

(b) *Initial notification.* You must submit the initial notification required by §63.9(b) for a new or reconstructed affected source no later than 120 days after initial startup or 120 days after April 19, 2004, whichever is later. For an existing affected source, you must submit the initial notification no later than 1 year after April 19, 2004. If you are using compliance with the Surface Coating of Automobiles and Light-Duty Trucks NESHAP (subpart IIII of this part) as provided for under §63.4481(d) to constitute compliance with this subpart for any or all of your plastic parts coating operations, then you must include a statement to this effect in your initial notification, and no other notifications are required under this subpart in regard to those plastic parts coating operations. If you are complying with another NESHAP that constitutes the predominant activity at your facility under §63.4481(e)(2) to constitute compliance with this subpart for your plastic parts coating operations, then you must include a statement to this effect in your initial notification, and no other notifications are required under this subpart in regard to those plastic parts coating operations.

(c) *Notification of compliance status.* You must submit the notification of compliance status required by §63.9(h) no later than 30 calendar days following the end of the initial compliance period described in

§63.4540, §63.4550, or §63.4560 that applies to your affected source. The notification of compliance status must contain the information specified in paragraphs (c)(1) through (11) of this section and in §63.9(h).

(1) Company name and address.

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

(3) Date of the report and beginning and ending dates of the reporting period. The reporting period is the initial compliance period described in §63.4540, §63.4550, or §63.4560 that applies to your affected source.

(4) Identification of the compliance option or options specified in §63.4491 that you used on each coating operation in the affected source during the initial compliance period.

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

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

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

(ii) If you failed to meet the applicable emission limit in §63.4490, include all the calculations you used to determine the kg (lb) organic HAP emitted per kg (lb) coating solids used. You do not need to submit information provided by the materials' suppliers or manufacturers, or test reports.

(7) For each of the data items listed in paragraphs (c)(7)(i) through (iv) of this section that is required by the compliance option(s) you used to demonstrate compliance with the emission limit, include an example of how you determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing conducted according to §63.4541(a), (b), or (c). You do not need to submit copies of any test reports.

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

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

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

(iv) The amount of waste materials and the mass of organic HAP contained in the waste materials for which you are claiming an allowance in Equation 1 of §63.4551.

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

(i) For the compliant material option, provide an example calculation of the organic HAP content for one coating, using Equation 1 of §63.4541.

§ 63.4520 What reports must I submit?

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

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

(i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in §63.4540, §63.4550, or §63.4560 that applies to your affected source and ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period.

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

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

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

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

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

(i) Company name and address.

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

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

(iv) Identification of the compliance option or options specified in §63.4491 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates for each option you used.

(4) *No deviations.* If there were no deviations from the emission limitations in §§63.4490, 63.4492, and 63.4493 that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If you used the emission rate with add-on controls option and there were no periods during which the continuous parameter monitoring systems

(CPMS) were out-of-control as specified in §63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.

(5) *Deviations: Compliant material option.* If you used the compliant material option and there was a deviation from the applicable organic HAP content requirements in §63.4490, the semiannual compliance report must contain the information in paragraphs (a)(5)(i) through (iv) of this section.

(i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used.

(ii) The calculation of the organic HAP content (using Equation 1 of §63.4541) for each coating identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (*e.g.,* information provided by coating suppliers or manufacturers, or test reports).

(iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (*e.g.,* information provided by material suppliers or manufacturers, or test reports).

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

§ 63.4530 What records must I keep?

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

(a) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. If you are using the predominant activity alternative under §63.4490(c), you must keep records of the data and calculations used to determine the predominant activity. If you are using the facility-specific emission limit alternative under §63.4490(c), you must keep records of the data used to calculate the facility-specific emission limit for the initial compliance demonstration. You must also keep records of any data used in each annual predominant activity determination and in the calculation of the facility-specific emission limit for each 12-month compliance period included in the semi-annual compliance reports.

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

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

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

(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 1 of §63.4541.

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

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

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

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

§ 63.4531 In what form and for how long must I keep my records?

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

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

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

Compliance Requirements for the Compliant Material Option
§ 63.4540 By what date must I conduct the initial compliance demonstration?

You must complete the initial compliance demonstration for the initial compliance period according to the requirements in §63.4541. The initial compliance period begins on the applicable compliance date specified in §63.4483 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through that month plus the next 12 months. The initial compliance demonstration includes the calculations according to §63.4541 and supporting documentation showing that during the initial compliance period, you used no coating with an organic HAP content that exceeded the applicable emission limit in §63.4490, and that you used no thinners and/or other additives, or cleaning materials that contained organic HAP as determined according to §63.4541(a).

§ 63.4541 How do I demonstrate initial compliance with the emission limitations?

You may use the compliant material option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. You must use either the emission rate without add-on controls option or the emission rate with add-on controls option for any coating operation in the affected source for which you do not use this option. To demonstrate initial compliance using the compliant material option, the coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the applicable emission limits in §63.4490 and must use no thinner and/or other additive, or cleaning material that contains organic HAP as determined according to this section. Any coating operation for which you use the compliant material option is not required to meet the operating limits or work practice standards required in §§63.4492 and 63.4493, respectively. You must conduct a separate initial compliance demonstration for each general use coating, TPO coating, automotive lamp coating, and assembled on-road vehicle coating affected source unless you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c). If you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), you must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. You must meet all the requirements of this section. Use the procedures in this section on each coating, thinner and/or other additive, and cleaning material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. You do not need to redetermine the organic HAP content of coatings, thinners and/or other additives, and cleaning materials that are reclaimed on-site (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coating operation for which you use the compliant material option, provided these materials in their condition as received were demonstrated to comply with the compliant material option.

(a) *Determine the mass fraction of organic HAP for each material used.* You must determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in paragraphs (a)(1) through (5) of this section.

(1) *Method 311 (appendix A to 40 CFR part 63).* You may use Method 311 for determining the mass fraction of organic HAP. Use the procedures specified in paragraphs (a)(1)(i) and (ii) of this section when performing a Method 311 test.

(i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, you do not have to count it. Express the mass fraction of each organic HAP you count as a value truncated to four places after the decimal point (*e.g.,* 0.3791).

(ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (*e.g.,* 0.763).

(2) *Method 24 (appendix A to 40 CFR part 60).* For coatings, you may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, you may use the alternative method contained in appendix A to this subpart, rather than Method 24. You may use the volatile fraction that is emitted, as measured by the alternative method in appendix A to this subpart, as a substitute for the mass fraction of organic HAP.

(3) *Alternative method.* You may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. You must follow the procedure in §63.7(f) to submit an alternative test method for approval.

(4) *Information from the supplier or manufacturer of the material.* You may rely on information other than that generated by the test methods specified in paragraphs (a)(1) through (3) of this section, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, you do not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, you may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to paragraphs (a)(1) through (3) of this section, then the test method results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(5) *Solvent blends.* Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, you may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 to this subpart. If you use the tables, you must use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and you may use Table 4 only if the solvent blends in the materials you use do not match any of the solvent blends in Table 3 and you know only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (appendix A to 40 CFR part 63) test indicate higher values than those listed on Table 3 or 4 to this subpart, the Method 311 results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(b) *Determine the mass fraction of coating solids for each coating.* You must determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during the

compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in paragraphs (b)(1) through (3) of this section.

(1) *Method 24 (appendix A to 40 CFR part 60).* Use Method 24 for determining the mass fraction of coating solids. For reactive adhesives in which some of the liquid fraction reacts to form solids, you may use the alternative method contained in appendix A to this subpart, rather than Method 24, to determine the mass fraction of coating solids.

(2) *Alternative method.* You may use an alternative test method for determining the solids content of each coating once the Administrator has approved it. You must follow the procedure in §63.7(f) to submit an alternative test method for approval.

(3) *Information from the supplier or manufacturer of the material.* You may obtain the mass fraction of coating solids for each coating from the supplier or manufacturer. If there is disagreement between such information and the test method results, then the test method results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(c) *Calculate the organic HAP content of each coating.* Calculate the organic HAP content, kg (lb) organic HAP emitted per kg (lb) coating solids used, of each coating used during the compliance period using Equation 1 of this section:

$$H_c = \frac{W_c}{S_c} \qquad (Eq.\ 1)$$

Where:

H_c = Organic HAP content of the coating, kg (lb) of organic HAP emitted per kg (lb) coating solids used.

W_c = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to paragraph (a) of this section.

S_c = Mass fraction of coating solids, kg coating solids per kg coating, determined according to paragraph (b) of this section.

(d) *Compliance demonstration.* The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit in §63.4490; and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP, determined according to paragraph (a) of this section. You must keep all records required by §§63.4530 and 63.4531. As part of the notification of compliance status required in §63.4510, you must identify the coating operation(s) for which you used the compliant material option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because you used no coatings for which the organic HAP content exceeded the applicable emission limit in §63.4490, and you used no thinners and/or other additives, or cleaning materials that contained organic HAP, determined according to the procedures in paragraph (a) of this section.

§ 63.4542 How do I demonstrate continuous compliance with the emission limitations?

(a) For each compliance period to demonstrate continuous compliance, you must use no coating for which the organic HAP content (determined using Equation 1 of §63.4541) exceeds the applicable emission limit in §63.4490, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to §63.4541(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in §63.4540, is the end of a compliance period consisting of that month and the preceding 11 months. If you are complying with a facility-specific emission limit under §63.4490(c), you must also perform the calculation using Equation 1 in §63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If you choose to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in paragraph (a) of this section is a deviation from the emission limitations that must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(5).

(c) As part of each semiannual compliance report required by §63.4520, you must identify the coating operation(s) for which you used the compliant material option. If there were no deviations from the applicable emission limit in §63.4490, submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because you used no coatings for which the organic HAP content exceeded the applicable emission limit in §63.4490, and you used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to §63.4541(a).

(d) You must maintain records as specified in §§63.4530 and 63.4531.

Other Requirements and Information

§ 63.4580 Who implements and enforces this subpart?

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

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

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

(1) Approval of alternatives to the requirements in §§63.4481 through 4483 and §§63.4490 through 4493.

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

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

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

§ 63.4581 What definitions apply to this subpart?

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

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

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

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

Assembled on-road vehicle coating means any coating operation in which coating is applied to the surface of some component or surface of a fully assembled motor vehicle or trailer intended for on-road use including, but not limited to, components or surfaces on automobiles and light-duty trucks that have been repaired after a collision or otherwise repainted, fleet delivery trucks, and motor homes and other

recreational vehicles (including camping trailers and fifth wheels). Assembled on-road vehicle coating includes the concurrent coating of parts of the assembled on-road vehicle that are painted off-vehicle to protect systems, equipment, or to allow full coverage. Assembled on-road vehicle coating does not include surface coating operations that meet the applicability criteria of the Automobiles and Light-Duty Trucks NESHAP. Assembled on-road vehicle coating also does not include the use of adhesives, sealants, and caulks used in assembling on-road vehicles.

Automotive lamp coating means any coating operation in which coating is applied to the surface of some component of the body of an exterior automotive lamp, including the application of reflective argent coatings and clear topcoats. Exterior automotive lamps include head lamps, tail lamps, turn signals, brake lights, and side marker lights. Automotive lamp coating does not include any coating operation performed on an assembled on-road vehicle.

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

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

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

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

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

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

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

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

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

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

(1) Fails to meet any requirement or obligation established by this subpart including but not limited to, any emission limit or operating limit or work practice standard;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limit, or operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

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

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

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

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

General use coating means any coating operation that is not an automotive lamp, TPO, or assembled on-road vehicle coating operation.

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

Manufacturer's formulation data means data on a material (such as a coating) that are supplied by the material manufacturer based on knowledge of the ingredients used to manufacture that material, rather than based on testing of the material with the test methods specified in §63.4541. Manufacturer's formulation data may include, but are not limited to, information on density, organic HAP content, volatile organic matter content, and coating solids content.

Mass fraction of coating solids means the ratio of the mass of solids (also known as the mass of nonvolatiles) to the mass of a coating in which it is contained; kg of coating solids per kg of coating.

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

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

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

Organic HAP content means the mass of organic HAP emitted per mass of coating solids used for a coating calculated using Equation 1 of §63.4541. The organic HAP content is determined for the coating in the condition it is in when received from its manufacturer or supplier and does not account for any alteration after receipt. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, organic HAP content is the mass of organic HAP that is emitted, rather than the organic HAP content of the coating as it is received.

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

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

Plastic part and product means any piece or combination of pieces of which at least one has been formed from one or more resins. Such pieces may be solid, porous, flexible or rigid.

Protective oil means an organic material that is applied to metal for the purpose of providing lubrication or protection from corrosion without forming a solid film. This definition of protective oil includes, but is not limited to, lubricating oils, evaporative oils (including those that evaporate completely), and extrusion oils.

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

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

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

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

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

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

Thermoplastic olefin (TPO) means polyolefins (blends of polypropylene, polyethylene and its copolymers). This also includes blends of TPO with polypropylene and polypropylene alloys including, but not limited to, thermoplastic elastomer (TPE), TPE polyurethane (TPU), TPE polyester (TPEE), TPE polyamide (TPAE), and thermoplastic elastomer polyvinyl chloride (TPVC).

Thermoplastic olefin (TPO) coating means any coating operation in which the coatings are components of a system of coatings applied to a TPO substrate, including adhesion promoters, primers, color coatings, clear coatings and topcoats. Thermoplastic olefin coating does not include the coating of TPO substrates on assembled on-road vehicles.

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

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

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

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

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

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

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

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

Table 4 to Subpart PPPP of Part 63— Default Organic HAP Mass Fraction for Petroleum Solvent Groups [a]

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

Solvent Type	Average organic HAP mass fraction	Typical organic HAP, percent by mass
Aliphatic [b] Xylene, 1% Toluene, and 1% Ethylbenzene	0.03	1%
Aromatic [c] Xylene, 1% Toluene, and 1% Ethylbenzene	0.06	4%

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

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

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

Appendix A to Subpart PPPP of Part 63—Determination of Weight Volatile Matter Content and Weight Solids Content of Reactive Adhesives

1.0 Applicability and Principle

1.1 *Applicability:*

This method applies to the determination of weight volatile matter content and weight solids content for most one-part or multiple-part reactive adhesives. Reactive adhesives are composed, in large part, of monomers that react during the adhesive curing reaction, and, as a result, do not volatilize. The monomers become integral parts of the cured adhesive through chemical reaction. At least 70 weight percent of the system, excluding water and non-volatile solids such as fillers, react during the process. This method is not appropriate for cyanoacrylates. For cyanoacrylates, South Coast Air Quality Management District Test Method 316B should be used. This method is not appropriate for one-part moisture cure urethane adhesives or for silicone adhesives. For one-part moisture cure urethane adhesives and for silicone adhesives, EPA Method 24 should be used.

1.2 Principle:

One-part and multiple-part reactive adhesives undergo a reactive conversion from liquid to solid during the application and assembly process. Reactive adhesives are applied to a single surface, but then are usually quickly covered with another mating surface to achieve a bonded assembly. The monomers employed in such systems typically react and are converted to non-volatile solids. If left uncovered, as in a Method 24 (ASTM D2369) test, the reaction is inhibited by the presence of oxygen and volatile loss of the reactive components competes more heavily with the cure reaction. If this were to happen under normal use conditions, the adhesives would not provide adequate performance. This method minimizes this undesirable deterioration of the adhesive performance.

2.0 Materials and Apparatus

2.1 Aluminum foil, aluminum sheet, non-leaching plastic film or non-leaching plastic sheet, approximately 3 inches by 3 inches. Precondition the foil, film, or sheet for 30 minutes in an oven at 110 ±5 degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the foil, film, or sheet.

2.2 Flat, rigid support panels slightly larger than the foil, film, or sheet. Polypropylene with a minimum thickness of 1/8 inch is recommended for the support panels. Precondition the support panels for 30 minutes in an oven at 110 ±5 degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the support panels.

2.3 Aluminum spacers, 1/8 inch thick. Precondition the spacers for 30 minutes in an oven at 110 ±5 degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the spacers.

2.4 Forced draft oven, type IIA or IIB as specified in ASTM E145–94 (Reapproved 2001), "Standard Specification for Gravity-Convection and Forced-Ventilation Ovens" (incorporated by reference, see §63.14).

2.5 Electronic balance capable of weighing to ±0.0001 grams (0.1 mg).

2.6 Flat bottom weight (approximately 3 lbs) or clamps.

Material and Apparatus Notes

1— The foil, film, or sheet should be thick or rigid enough so that it can be easily handled in the test procedure.

3.0 Procedure

3.1 Two procedures are provided. In Procedure A the initial specimen weight is determined by weighing the foil, film, or sheet before and after the specimen is dispensed onto the foil, film, or sheet. In Procedure B the initial specimen weight is determined by weighing the adhesive cartridge (kit) before and after the specimen is dispensed.

3.2 At least four test specimens should be run for each test material. Run the test at room temperature, 74 degrees Fahrenheit (23 degrees Celsius).

Procedure A

1. Zero electronic balance.
2. Place 2 pieces of aluminum foil (or aluminum sheet, plastic film, or plastic sheet) on scale.
3. Record weight of aluminum foils. (A).
4. Tare balance.
5. Remove top piece of aluminum foil.
6. Dispense a 10 to 15 gram specimen of premixed adhesive onto bottom piece of aluminum foil. Place second piece of aluminum foil on top of the adhesive specimen to make a sandwich.
7. Record weight of sandwich (specimen and aluminum foils). (B).
8. Remove sandwich from scale, place sandwich between two support panels with aluminum spacers at the edges of the support panels to make a supported sandwich. The spacers provide a standard gap. Take care to mate the edges.
9. Place the supported sandwich on a flat surface.
10. Place the weight on top of the supported sandwich to spread the adhesive specimen to a uniform thickness within the sandwich. Check that no adhesive squeezes out from between the pieces of aluminum foil or through tears in the aluminum foil.
11. Allow to cure 24 hours.
12. Remove the sandwich from between the support panels. Record the weight of the sandwich. This is referred to as the 24 hr weight. (C).
13. Bake sandwich at 110 degrees Celsius for 1 hour.
14. Remove sandwich from the oven, place immediately in a desiccator, and cool to room temperature. Record post bake sandwich weight. (D).

Procedure B

1. Zero electronic balance.
2. Place two pieces of aluminum foil (or aluminum sheet, plastic film, or plastic sheet) on scale.
3. Record weight of aluminum foils. (A).
4. Tare balance.
5. Place one support panel on flat surface. Place first piece of aluminum foil on top of this support panel.
6. Record the weight of a pre-mixed sample of adhesive in its container. If dispensing the adhesive from a cartridge (kit), record the weight of the cartridge (kit) plus any dispensing tips. (F).

7.Dispense a 10 to 15 gram specimen of mixed adhesive onto the first piece of aluminum foil. Place second piece of aluminum foil on top of the adhesive specimen to make a sandwich.
8. Record weight of the adhesive container. If dispensing the adhesive from a cartridge (kit), record the weight of the cartridge (kit) plus any dispensing tips. (G).
9. Place the aluminum spacers at the edges of the bottom support panel polypropylene sheet. The spacers provide a standard gap.
10. Place the second support panel on top of the assembly to make a supported sandwich. Take care to mate the edges.
11. Place the supported sandwich on a flat surface.
12. Place the weight on top of the supported sandwich to spread the adhesive specimen to a uniform thickness within the sandwich. Check that no adhesive squeezes out from between the pieces of aluminum foil or through tears in the aluminum foil.
13. Allow to cure 24 hours.
14. Remove the sandwich from between the support panels. Record the weight of the sandwich. This is referred to as the 24 hr weight. (C).
15. Bake sandwich at 110 degrees Celsius for 1 hour.
16. Remove sandwich from the oven, place immediately in a desiccator, and cool to room temperature.
17. Record post-bake sandwich weight. (D).

Procedural Notes

1 — The support panels may be omitted if the aluminum foil (or aluminum sheet, plastic film, or plastic sheet) will not tear and the adhesive specimen will spread to a uniform thickness within the sandwich when the flat weight is placed directly on top of the sandwich.
2 — Clamps may be used instead of a flat bottom weight to spread the adhesive specimen to a uniform thickness within the sandwich.
3 — When dispensing from a static mixer, purging is necessary to ensure uniform, homogeneous specimens. The weighing in Procedure B, Step 6 must be performed after any purging.
4 — Follow the adhesive manufacturer's directions for mixing and for dispensing from a cartridge (kit).

4.0 Calculations

4.1 The total weight loss from curing and baking of each specimen is used to determine the weight percent volatile matter content of that specimen

Procedure A

Weight of original specimen (S) = (B)−(A)
Weight of post-bake specimen (P) = (D)−(A)
Total Weight Loss (L) = (S)−(P)

Procedure B

Weight of original specimen (S) = (F)−(G)
Weight of post-bake specimen (P) = (D)−(A)
Total Weight Loss (L) = (S)−(P)

Procedure A and Procedure B

Weight Percent Volatile Matter Content
(V) = [(Total weight loss)/(Initial specimen weight)] × 100 = [(L)/(S)] × 100

4.2 The weight volatile matter content of a material is the average of the weight volatile matter content of each specimen of that material. For example, if four specimens of a material were tested, then the weight percent volatile matter content for that material is:
V = [V1 + V2 + V3 + V4]/4
Where:
Vi = the weight percent volatile matter content of specimen i of the material.

4.3 The weight percent solids content of the material is calculated from the weight percent volatile content of the material.
Weight Percent Solids Content (N) = 100−(V)

Calculation Notes

1 — The weight loss during curing and the weight loss during baking may be calculated separately. These values may be useful for identifying sources of variation in the results obtained for different specimens of the same material.
2 — For both Procedure A and Procedure B, the weight loss during curing is (S)−[(C)−(A)] and the weight loss

during baking is (C)−(D).

D.1.12 One-Time Deadlines Relating to Coating of Plastic Parts and Products NESHAP [40 CFR Part 63, Subpart PPPP]

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

Requirement	Rule Cite	Deadline
Submit Initial Notification	40 CFR 63.4510(b)	No later than April 19, 2005
Compliance Date	40 CFR 63.4483(b)	April 19, 2007
Conduct Initial Compliance Demonstration	40 CFR 63.4540	April 19, 2007 to April 30, 2008
Notification of Compliance Status	40 CFR 63.4510(c)	No later than May 30, 2008
Semiannual Compliance Reports	40 CFR 63.4520(a)(1)	July 31, 2008, and every January 31 and July 31 thereafter

SECTION D.2 FACILITY OPERATION CONDITIONS

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

Eight (8) woodworking areas (Plants 4, 7, 110, 201, 205, 210, 220, and 310), identified as EU16, with particulate for each area controlled by a cyclone and baghouse, exhaust through general building ventilation and having PM/PM_{10} emissions less than five (5) pounds per hour and twenty-five (25) pounds per day, total. [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.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the insignificant woodworking, identified as EU16, shall not exceed the allowable emission rate of particulate as determined by the following:

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

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Coachmen Recreational Vehicle, LLC Middlebury
Source Address: 423 N. Main Street, Middlebury, Indiana 46540
Mailing Address: 423 N. Main Street, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-17984-00062

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify) _____

☐ Report (specify) _____

☐ Notification (specify) _____

☐ Affidavit (specify) _____

☐ Other (specify) _____

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Coachmen Recreational Vehicle, LLC Middlebury
Source Address: 423 N. Main Street, Middlebury, Indiana 46540
Mailing Address: 423 N. Main Street, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-17984-00062

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

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

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

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Coachmen Recreational Vehicle, LLC Middlebury
Source Address: 423 N. Main Street, Middlebury, Indiana 46540
Mailing Address: 423 N. Main Street, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-17984-00062
Facility: Entire Source
Parameter: Total VOC input, including clean-up solvents, from the entire source
Limit: 249 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	VOC Emissions (tons/yr)	VOC Emissions (tons/yr)	VOC Emissions (tons/yr)
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Coachmen Recreational Vehicle, LLC Middlebury
Source Address: 423 N. Main Street, Middlebury, Indiana 46540
Mailing Address: 423 N. Main Street, Middlebury, Indiana 46540
Part 70 Permit No.: T 039-17984-00062

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

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Name:	**Coachmen Recreational Vehicle, LLC Middlebury**
Source Location:	**423 N. Main Street, Middlebury, Indiana 46540**
County:	**Elkhart**
SIC Code:	**3792**
Operation Permit No.:	**T 039-17984-00062**
Permit Reviewer:	**Brian J. Pedersen/MES**

On May 12, 2007, the Office of Air Quality (OAQ) had a notice published in the Elkhart Truth, Elkhart, Indiana, stating that Coachmen Recreational Vehicle, LLC Middlebury had applied for a Part 70 Operating Permit Renewal to operate a stationary travel trailer, camper and motor home manufacturing source with dry filters for particulate control. The notice also stated that OAQ 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 June 8 2007, Mr. Bill MacDonald of Coachmen Recreational Vehicle, LLC Middlebury submitted comments on the proposed Part 70 Operating Permit Renewal. The comments are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded.**

Comment 1:

In the facility description please amend (b) to state that "Plant 7 has one (1) painting booth", instead of "Plant 6 has one (1) painting booth". Also, in (h) it should state "using a black HAPs-free enamel coating in Plant 7" instead of "using a black HAPs-free enamel coating in Plant 220".

Response 1:

Upon further review, the OAQ has decided to make the following changes to the Part 70 Operating Permit:

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

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

(a) One (1) frame spray coating area (Plant 105) used to coat metal, identified as EU12, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame spray coating area, is considered an existing affected facility.

(b) Fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) used to coat metal, identified as EU14, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, all areas (all plants) exhausted through general ventilation systems. In addition, Plant 105 has two (2) painting booths and **Plant 7** ~~Plant 6~~ has one (1) painting booth, equipped with air-assisted airless and HVLP spray applicators with dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) thinning and reducing areas, are considered existing affected facilities.

(c) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220,

250, and 310) for the application of caulks and sealants used to coat plastic, wood and metal, identified as EU7, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(d) Fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating metal parts, identified as EU9, installed prior to 1972, equipped with airless or HVLP spray applicators and dry filters for overspray control, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) spray coating areas, are considered existing affected facilities.

(e) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives to metal parts, identified as EU3, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310 exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(f) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives to plastic parts, identified as EU8, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(g) Fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of plastic and metal product prior to application of decals, identified as EU10, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310, exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) manual product cleaning areas, are considered existing affected facilities.

(h) One (1) frame coating paint spray booth, identified as 220-01, installed in 2003, using a black HAPs-free enamel coating in **Plant 7** ~~Plant 220~~ used to coat metal parts, equipped with HVLP applicators and dry filters for overspray control, exhausted to stack S9, capacity: 1.00 vehicle per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame coating paint spray booth, is considered an existing affected facility.

(i) One (1) spray booth used to coat metal parts, identified as Plant 250 Touch-Up Repair Booth, installed in 2005, equipped with dry filters for overspray control, exhausted to stack S11, capacity: 0.75 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) spray booth, is considered an existing affected facility.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) One (1) frame spray coating area (Plant 105) used to coat metal, identified as EU12, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame spray coating area, is considered an existing affected facility.

(b) Fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) used to coat metal, identified as EU14, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, all areas (all plants) exhausted through general ventilation systems. In addition, Plant 105 has two (2) painting booths and **Plant 7** ~~Plant 6~~ has one (1) painting booth, equipped with air-assisted airless and HVLP spray applicators with dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) thinning and reducing areas, are considered existing affected facilities.

(c) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of caulks and sealants used to coat plastic, wood and metal, identified as EU7, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(d) Fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating metal parts, identified as EU9, installed prior to 1972, equipped with airless or HVLP spray applicators and dry filters for overspray control, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) spray coating areas, are considered existing affected facilities.

(e) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives to metal parts, identified as EU3, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310 exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(f) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives to plastic parts, identified as EU8, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(g) Fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of plastic and metal product prior to application of decals, identified as EU10, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310, exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) manual product cleaning areas, are considered existing affected facilities.

(h) One (1) frame coating paint spray booth, identified as 220-01, installed in 2003, using a black HAPs-free enamel coating in **Plant 7**~~Plant 220~~ used to coat metal parts, equipped with HVLP applicators

and dry filters for overspray control, exhausted to stack S9, capacity: 1.00 vehicle per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame coating paint spray booth, is considered an existing affected facility.

(i) One (1) spray booth used to coat metal parts, identified as Plant 250 Touch-Up Repair Booth, installed in 2005, equipped with dry filters for overspray control, exhausted to stack S11, capacity: 0.75 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) spray booth, is considered an existing affected facility.

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

Comment 2:

On page 4 of 8 of Appendix A to the TSD there are a couple of minor edits. Please remove the automotive paint under emission unit EU-12 and amend the capacity of the Black Water Reducible Enamel from 0.993 gallons per hour to 1.206 gallons per hour. Also, it appears that the numbers contained in the gallons of material and the maximum units per hour are reversed. Please amend these errors.

Response 2:

The IDEM, OAQ prefers that the TSD remain unchanged from the public notice version. The following changes to the potential to emit are noted below. See Appendix A of this addendum for corrected emission calculations.

	Potential To Emit (tons/yr)						
Process/Emission Unit	PM	PM_{10}	SO_2	VOC	CO	NO_x	HAPs
Surface Coating Operations	**96.8** ~~110~~	**96.8** ~~110~~	-	[1]Limited to 249 (including insignificant activities)	-	-	[2]Less than 249
Insignificant Woodworking Operations	4.56	4.56	-		-	-	-
Insignificant Welding	2.00	2.00	-		-	-	negligible
Total Emissions	**103** ~~117~~	**103** ~~117~~	-		-	-	[2]Less than 250

Appendix A to the Addendum: Potential Emissions Calculations
Revised VOC and Particulate From Surface Coating Operations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: June 18, 2007

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/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 per year	lb VOC /gal solids	Transfer Efficiency	Material Substrate
EU12 RV COATING - FRAME PAINTING (PRIMER)																	
Gray Water Reducible Enamel	10.35	56.19%	42.37%	13.8%	49.67%	28.80%	0.32200	10.0	2.84	1.43	4.61	110.54	20.17	15.99	4.97	75%	metal
EU12 RV COATING - FRAME PAINTING																	
Black Water Reducible Enamel	8.50	72.89%	56.42%	16.5%	57.58%	21.00%	0.99300	10.0	3.30	1.40	13.90	333.64	60.89	25.06	6.67	75%	metal
EU12 RV COATING - ENAMEL																	
Gloss Black Paint	6.08	90.00%	20.00%	70.0%	18.32%	N/A	0.11900	10.0	5.21	4.26	5.06	121.55	22.18	1.58	N/A	50%	metal
EU14 PAINT THINNER/REDUCERS																	
Lacquer Thinner	6.99	100.00%	0.00%	100.0%	0.0%	0.00%	0.01400	10.0	6.99	6.99	0.98	23.49	4.29	0.00	N/A	75%	metal
Primer Reducer	8.00	89.00%	0.00%	89.0%	0.0%	50.00%	0.08500	10.0	7.12	7.12	6.05	145.25	26.51	0.82	14.24	75%	metal
Gun Cleaner	9.51	95.00%	0.0%	95.0%	0.0%	5.00%	0.00300	10.0	9.03	9.03	0.27	6.50	1.19	0.02	180.69	75%	metal
Toluene	7.26	100.00%	0.0%	100.0%	0.0%	0.00%	0.02100	10.0	7.26	7.26	1.52	36.59	6.68	0.00	N/A	75%	metal
Plant No. 7																	
WR HAPs free enamel	9.80	28.00%	0.0%	28.0%	0.0%	72.00%	1.00	1.00	2.74	2.74	2.74	65.86	12.02	7.73	N/A	75%	metal
Plant 250 Touch Up Booth																	
Base Coat	7.50	0.0%	0.0%	79.0%	0.00%	12.5%	0.250	0.750	5.92	5.92	1.11	26.65	4.86	1.54	N/A	75%	metal
Flex Seal Sealer	9.30	0.0%	0.0%	26.1%	0.00%	49.1%	0.125	0.750	2.42	2.42	0.23	5.45	0.99	0.95	N/A	75%	metal
Glamour Clear Coat	8.10	0.0%	0.0%	50.0%	0.00%	49.8%	0.125	0.750	4.05	4.05	0.38	9.11	1.66	0.83	N/A	75%	metal

Total Potential Emissions **Worst case coating added to all solvents** **Total** **161** **54.5**

Control Efficiency 90%

Controlled PM/PM10 Emissions **5.45**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * Flash-off
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day) * Flash-off
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs) * Flash-off
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

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	**Coachmen Recreational Vehicle, LLC Middlebury**
Source Location:	**423 N. Main Street, Middlebury, Indiana 46540**
County:	**Elkhart**
SIC Code:	**3792**
Operation Permit No.:	**T 039-6922-00062**
Operation Permit Issuance Date:	**June 9, 1999**
Permit Renewal No.:	**T 039-17984-00062**
Permit Reviewer:	**Brian J. Pedersen**

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Coachmen Recreational Vehicle, LLC Middlebury relating to the operation of a stationary travel trailer, camper and motor home manufacturing source.

Permitted Emission Units and Pollution Control Equipment

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

(a) One (1) frame spray coating area (Plant 105) used to coat metal, identified as EU12, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame spray coating area, is considered an existing affected facility.

(b) Fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) used to coat metal, identified as EU14, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, all areas (all plants) exhausted through general ventilation systems. In addition, Plant 105 has two (2) painting booths and Plant 6 has one (1) painting booth, equipped with air-assisted airless and HVLP spray applicators with dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) thinning and reducing areas, are considered existing affected facilities.

(c) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of caulks and sealants used to coat plastic, wood and metal, identified as EU7, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(d) Fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating metal parts, identified as EU9, installed prior to 1972, equipped with airless or HVLP spray applicators and dry filters for overspray control, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) spray coating areas, are considered existing affected facilities.

(e) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives to metal parts, identified as EU3, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310 exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(f) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives to plastic parts, identified as EU8, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(g) Fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of plastic and metal product prior to application of decals, identified as EU10, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310, exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) manual product cleaning areas, are considered existing affected facilities.

(h) One (1) frame coating paint spray booth, identified as 220-01, installed in 2003, using a black HAPs-free enamel coating in Plant 220 used to coat metal parts, equipped with HVLP applicators and dry filters for overspray control, exhausted to stack S9, capacity: 1.00 vehicle per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame coating paint spray booth, is considered an existing affected facility.

(i) One (1) spray booth used to coat metal parts, identified as Plant 250 Touch-Up Repair Booth, installed in 2005, equipped with dry filters for overspray control, exhausted to stack S11, capacity: 0.75 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) spray booth, is considered an existing affected facility.

Unpermitted Emission Units and Pollution Control Equipment

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

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no proposed emission units 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) Machining where an aqueous cutting coolant continuously floods the machining interface.

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

(c) Eight (8) woodworking areas (Plants 4, 7, 110, 201, 205, 210, 220, and 310), identified as EU16, with particulate for each area controlled by a cyclone and baghouse, exhausted through general building ventilation and having PM/PM_{10} emissions less than five (5) pounds per hour and twenty-five (25) pounds per day, total. [326 IAC 6-3-2]

Existing Approvals

The source has been operating under the previous Part 70 Operating Permit T 039-6922-00062 issued on June 9, 1999, and the following amendments and modifications:

(a) AA 039-13811-00062, issued on March 21, 2001;

(b) AA 039-17307-00062, issued on March 18, 2003;

(c) MSM 039-17850-00062, issued on October 21, 2003;

(d) MPM 039-17934-00062, issued on November 14, 2003;

(e) AA 039-15898-00062, issued on March 30, 2004;

(f) AA 039-19897-00062, issued on January 3, 2005;

(g) MSM 039-20911-00062, issued on March 24, 2005; and

(h) MPM 039-20937-00062, issued on May 27, 2005.

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

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating 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 Operating Permit Renewal application for the purposes of this review was received on September 10, 2003. Additional information was received on November 7, 2006.

Emission Calculations

See pages 1 through 8 of Appendix A of this document for detailed emission calculations.

The woodworking areas were added in T 039-6922-00062, issued on June 9, 1999, as an insignificant activity with emissions less than five (5) pounds per hour and twenty-five (25) pounds per day. Therefore, the most conservative estimate of twenty-five (25) pounds per day shall be equivalent to 4.56 tons per year of PM/PM_{10}.

The insignificant welding/cutting operations shall attribute a conservative estimate of two (2) tons per year of PM/PM_{10} emissions.

Potential to Emit of the Source

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

The source was issued a Part 70 Operating Permit on June 9, 1999. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential To Emit (tons/yr)						
Process/Emission Unit	PM	PM_{10}	SO_2	VOC	CO	NO_x	HAPs
Surface Coating Operations	110	110	-	[1]Limited to 249 (including insignificant activities)	-	-	[2]Less than 249
Insignificant Woodworking Operations	4.56	4.56	-		-	-	-
Insignificant Welding	2.00	2.00	-		-	-	negligible
Total Emissions	117	117	-		-	-	[2]Less than 250

[1] The VOC emissions from the entire source are limited to less than 249 tons per twelve (12) consecutive months to render the requirements of 326 IAC 2-2 (PSD) not applicable.

[2] The HAP emissions from the surface coating operation and the entire source do not have any specific limitations. However, since the VOC emissions from the entire source are limited, the HAP emissions are limited proportionally.

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC and PM_{10} is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions reported from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not Reported
PM_{10}	Not Reported
SO_2	Not Reported
VOC	52.0
CO	Not Reported
NO_x	Not Reported
HAP	Not Reported

County Attainment Status

The source is located in Elkhart County.

Pollutant	Status
$PM_{2.5}$	Attainment
PM_{10}	Attainment
SO_2	Attainment
NO_2	Attainment
8-Hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and nitrogen oxides (NO_X) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_X emissions are considered when evaluating the rule applicability relating to the ozone standards. Elkhart County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_X emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset. See the State Rule Applicability - Entire Source section of this document.

(b) Elkhart County has been classified as unclassifiable or attainment for $PM_{2.5}$. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for $PM_{2.5}$ emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for $PM_{2.5}$ emissions, it has directed states to regulate PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions. See the State Rule Applicability for the source section.

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

Rule Applicability - Entire Source section of this document.

(d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.

Part 70 Operating Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

(a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 Operating Permits.

(b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

(a) This source does involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 that has the potential to emit before controls equal to or greater than the major source threshold for VOC and HAP. These emission units are subject to emission limitations or standards for VOC and HAP. However, this source does not use a control device as defined in 40 CFR Part 64.1 to comply with that emission limitation or standard. Even though source-wide PM and PM_{10} emissions each are greater than the major source threshold, no single emission unit is greater than the major source threshold.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source and not included in this permit.

(b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

(c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Wood Furniture Manufacturing Operations, 40 CFR 63.800 Subpart JJ, are not included in the permit for this source because cabinet material is purchased precoated, and then stapled and glued (with zero-HAP white carpenter's glue) into cabinets which are then mechanically fastened to the product. IDEM had determined pursuant to T 039-6922-00062, issued on June 9, 1999, that just installing wood cabinets does not constitute a manufacturer of wood furniture or wood furniture components.

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63.3881 Subpart MMMM, are not included in the permit for this source because pursuant to 40 CFR 63.3881(c)(16) surface coating of assembled on-road vehicles that meet the applicability criteria for the assembled on-road vehicle subcategory in plastic parts and products surface coating (40 CFR Part 63, Subpart PPPP) shall not be subject to this subpart.

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reinforced Plastic Parts and Products, 40 CFR 63.5780 Subpart WWWW,

are not included in the permit for this source because this source only applies surface coating to the plastic parts and does not manufacture plastic parts. Therefore, this source does not meet the definition of a reinforced plastic parts manufacturing source and shall not be subject to this subpart.

(f) This source applies coatings to plastic parts and is a major source of Hazardous Air Pollutants (HAPs). Pursuant to 40 CFR 63.4481(e)(i), if a surface coating operation accounts for 90 percent or more of the surface coating activity at your facility (that is, the predominant activity), then compliance with the emission limitations of the predominant activity for all surface coating operations constitutes compliance with these and other applicable surface coating NESHAP. Therefore, this source is subject to the National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Plastic Parts and Products, 40 CFR 63.4480, Subpart PPPP. An initial notification was submitted April 19, 2005.

Construction of this source commenced before December 4, 2002. Therefore, this is an existing affected source. The affected source consists of all coating operations as defined in 40 CFR 63.4581; all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed; all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation. The specific facilities include the following:

(1) One (1) frame spray coating area (Plant 105) used to coat metal, identified as EU12, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame spray coating area, is considered an existing affected facility.

(2) Fourteen (14) thinning and reducing areas (Plants 4, 5, 7, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) used to coat metal, identified as EU14, installed prior to 1972, equipped with HVLP spray applicators and dry filters for overspray control, all areas (all plants) exhausted through general ventilation systems. In addition, Plant 105 has two (2) painting booths and Plant 6 has one (1) painting booth, equipped with air-assisted airless and HVLP spray applicators with dry filters for overspray control, exhausted through stacks S5 and S6, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) thinning and reducing areas, are considered existing affected facilities.

(3) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of caulks and sealants used to coat plastic, wood and metal, identified as EU7, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(4) Fourteen (14) spray coating areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of undercoating metal parts, identified as EU9, installed prior to 1972, equipped with airless or HVLP spray applicators and dry filters for overspray control, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) spray coating areas, are considered existing affected facilities.

(5) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of general construction adhesives to metal parts, identified as EU3, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310 exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(6) Fourteen (14) assembly areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310) for the application of plumbing adhesives to plastic parts, identified as EU8, installed prior to 1972, all areas exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) assembly areas, are considered existing affected facilities.

(7) Fourteen (14) manual product cleaning areas (Plants 4, 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310), for the manual wipe degreasing of plastic and metal product prior to application of decals, identified as EU10, installed prior to 1972, Plant 4 exhausted through vent V29 and Plants 5, 6, 101, 102, 103, 105, 110, 150, 205, 210, 220, 250, and 310, exhausted through general building ventilation, capacity: 10.0 vehicles per hour total. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the fourteen (14) manual product cleaning areas, are considered existing affected facilities.

(8) One (1) frame coating paint spray booth, identified as 220-01, installed in 2003, using a black HAPs-free enamel coating in Plant 220 used to coat metal parts, equipped with HVLP applicators and dry filters for overspray control, exhausted to stack S9, capacity: 1.00 vehicle per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) frame coating paint spray booth, is considered an existing affected facility.

(9) One (1) spray booth used to coat metal parts, identified as Plant 250 Touch-Up Repair Booth, installed in 2005, equipped with dry filters for overspray control, exhausted to stack S11, capacity: 0.75 vehicles per hour. Under the NESHAP 40 CFR Part 63, Subpart PPPP, the one (1) spray booth, is considered an existing affected facility.

The Permittee has to comply with the requirements of 40 CFR 63, Subpart PPPP by April 19, 2007. The Permittee has chosen to comply with the requirements by using the compliant material option. Nonapplicable portions of the NESHAP will not be included in the permit. The existing affected source is subject to the following portions of the NESHAP:

(1) 63.4480

(2) 63.4481

(3) 63.4482 (a), (b), and (e)

(4) 63.4483 (b) and (d)

(5) 63.4490 (b)(1)

(6) 63.4491 (a)

(7) 63.4492 (a)

(8) 63.4493 (a)

(9) 63.4500 (a)(1) and (b)

(10) 63.4510 (a), (b), and (c)(1) through (c)(8)(i)

(11) 63.4520 (a)(1) through (a)(3)(iv), (a)(4) and (a)(5)

(12) 63.4530 (a), (b), (c)(1) through (c)(2), (d), (e), (f), and (h)

(13) 63.4531

(14) 63.4540

(15) 63.4541

(16) 63.4542

(17) 63.4580

(18) 63.4581

The provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facilities described in this section except when otherwise specified in 40 CFR 63, Subpart PPPP.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset)

Pursuant to T 039-6922-00062, issued on June 9, 1999, the source-wide VOC emissions, including cleanup solvents, were limited to 249 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The source then constructed one (1) frame coating paint spray booth and one (1) spray booth, identified as 220-01 and Plant 250 Touch-Up Repair Booth, respectively. Pursuant to MSM 03917984-00062 and MSM 039-20911-00062, issued on October 21, 2003 and March 24, 2005, respectively, these units were incorporated into the source-wide VOC limit of 249 tons per year. Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is a minor source pursuant to 326 IAC 2-2, PSD.

In 2004, Elkhart County was designated as nonattainment for the 8-hour ozone standard. Therefore, VOC emissions are now reviewed under 326 IAC 2-3 (Emission Offset). Since the potential to emit of the source is greater than one hundred (100) tons per year, the source is considered a major source under 326 IAC 2-3 (Emission Offset), without undergoing Emission Offset Review.

326 IAC 2-4.1-1 (New source toxics control)

Emission units, identified as EU3, EU7 – EU10, EU12, EU14, 220-01, and Plant 250 Touch-Up Repair Booth, are subject to NESHAP Subpart PPPP. Pursuant to 326 IAC 2-4.1-1(b)(2), since these facilities are specifically regulated by a standard issued pursuant to Section 112(d), the requirements of 326 IAC 2-4.1 are not included in this permit.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7, Part 70. Since this source in not located in Lake or Porter County, carbon monoxide, oxides of nitrogen, and sulfur dioxide emissions are less than two thousand five hundred (2,500) tons per year, and VOC and PM_{10} emissions are less than two hundred fifty (250) tons per year, triennial reporting shall be required. In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted by July 1, 2004 and every three (3) years thereafter. The emission statement shall contain, at a minimum, the

information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

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

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

State Rule Applicability – Individual Facilities

326 IAC 6-3-2 (Particulate emission limitations, work practices and control technologies)

(a) Pursuant to 326 IAC 6-3-2(d), the dry filters for particulate control shall be operation in accordance with manufacturer's specifications and control emissions from the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, the fourteen (14) spray coating areas for the application of undercoating, the one (1) frame coating paint spray booth, and the one (1) spray booth, identified as EU12, EU14, EU9, 220-01, and Plant 250 Touch-Up Repair Booth, respectively, at all times when these facilities are in operation.

(b) Pursuant 326 IAC 6-3-1(b)(8), the fourteen (14) assembly areas for the application of caulks and sealants, the fourteen (14) assembly areas for the application of plumbing adhesives, and the fourteen (14) manual product cleaning areas for the manual wipe degreasing of product prior to application of decals, use brush applicators, and are therefore exempt from the requirements of 326 IAC 6-3.

(c) There is currently a maintenance paint booth at the source which uses HVLP spray application methods. The purpose of this paint booth is not related to any manufacturing process. Therefore pursuant to 326 IAC 2-7-1(40)(E)(ii) this activity is considered trivial and is exempt from all regulatory requirements. Therefore, pursuant to 326 IAC 6-3-1(b)(13) this booth is exempt from the requirements of 326 IAC 6-3.

326 IAC 8-1-6 (New facilities; general reduction requirements)

The emission units, identified as EU12, EU14, EU7, EU9, EU3, EU8, and EU10 were installed prior to the applicability date of January 1, 1980 and emission units, identified as 220-01 and Plant 250 Touch-Up Booth, have potential VOC emissions of less than twenty-five (25) tons per year, each. Therefore, the requirements of 326 IAC 8-1-6 are not included in this permit for these facilities.

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

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), because the VOC emissions when coating metal from the fourteen (14) assembly areas for caulks and sealants, the fourteen (14) spray coating areas of undercoating, the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, and the frame coating paint spray booth, identified as EU7, EU9, EU12, EU14 and 220-01, respectively, are each greater than fifteen (15) pounds per

day, the volatile organic compound (VOC) content of the coating delivered to the applicators at the fourteen (14) assembly areas for caulks and sealants, the fourteen (14) spray coating areas of undercoating, the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, and the frame coating paint spray booth, identified as EU7, EU9, EU12, EU14 and 220-01, respectively, shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for extreme performance coatings, when coating metal.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

The materials used in EU7, EU9, and 220-01 can comply with these requirements based on the MSDS submitted by the source and the materials used in EU12 and EU14 combined with EU7, EU9, and 220-01 will comply with the requirements based on a daily volume weighted average. The source shall therefore comply with this rule by averaging the VOC content of the materials used to coat metal on a daily basis. The daily volume weighted average of VOC content shall be calculated using the following formula, where n is the number of coatings (c):

$$\frac{\sum_{c=1}^{c=n} \text{coating c (gal)} \times \text{VOC content of c (lbs/gal, less water)}}{\sum_{c=1}^{c=n} \text{coating c (gal)}}$$

326 IAC 8-2-12 (Wood Furniture and Cabinet Coatings (VOC))

The emission units, identified as EU3 and EU7, located in Elkhart County, and having potential VOC emisions greater than fifteen (15) pounds per day and twenty-five (25) tons per year were installed prior to the applicability date of January 1, 1980. Also, pursuant to T 039-6922-00062, issued on June 9, 1999, the cabinet material is purchased precoated, stapled and glued (with zero-HAP white carpenter's glue) into cabinets, which are then mechanically fastened to the product. IDEM, OAQ had determined that just installing wood cabinets does not constitute a manufacturer of wood furniture or wood furniture component. Therefore the requirements of 326 IAC 8-2-12 are not included in this permit for these facilities.

326 IAC 8-6 (Organic Solvent Emission Limitation)

The emission units, identified as EU12, EU14, EU7, EU9, EU3, EU8, and EU10, which have VOC emissions greater than one hundred (100) tons per year, were installed prior to the start of the applicability date of October 7, 1974 and emission units identified as 220-01 and Plant 250 Touch-Up Booth were installed after the ending date of applicability which is January 1, 1980. Therefore, the requirements of 326 IAC 8-6 are not included in this permit for these facilities.

State Rule Applicability - Insignificant Activities

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

(a) Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the insignificant woodworking, identified as EU16, shall not exceed the allowable emission rate of particulate as determined by the following:

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

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

(b) The insignificant welding consumes less than 625 pounds of weld wire or rod per day and less than 3,400 inches per hour of stock 1-inch thickness or less is cut with the insignificant torch cutting. Therefore, pursuant to 326 IAC 6-3-1(b)(9) and (10), the insignificant welding and torch cutting is exempt from the requirements of 326 IAC 6-3.

Testing Requirements

Since all emissions totals are based upon MSDS testing requirements are not being required for 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, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the approporiate corrective actions within a specific time period.

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

The one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, the fourteen (14) spray coating areas for the application of undercoating, the one (1) frame coating paint spray booth, and the one (1) spray booth, identified as EU12, EU14, EU9, 220-01, and Plant 250 Touch-Up Repair Booth, respectively, have applicable compliance monitoring conditions as specified below:

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 exhaust from the one (1) frame spray coating area, the fourteen (14) thinning and reducing areas, the fourteen (14) spray coating areas for the application of undercoating, the one (1) frame coating paint spray booth, and the one (1) spray booth, identified as EU12, EU14, EU9, 220-01, and Plant 250 Touch-Up Repair Booth, respectively while one or more of the areas and/or booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed,

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

These monitoring conditions are necessary to ensure compliance with 326 IAC 326 IAC 6-3 (Particulate emission limitations, work practices and control technologies) and 326 IAC 2-7 (Part 70).

Conclusion

The operation of this stationary travel trailer, camper and motor home manufacturing source shall be subject to the conditions of this Part 70 Operating Permit T 039-17984-00062.

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

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/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 per year	lb VOC /gal solids	Transfer Efficiency	Material Substrate
EU3 General Construction Adhesives - Complexwide																	
Construction Adhesive 40	9.54	33.00%	0.00%	33.0%	0.00%	N/A	0.29300	10.0	3.15	3.15	9.22	221.38	40.40	0.00	N/A	100%	wood, fiberglass
(2)676 High Perf. Adhesive	5.70	82.30%	0.00%	82.3%	0.00%	12.30%	0.49300	10.0	4.69	4.69	23.13	555.05	101.30	0.00	38.14	100%	wood, fiberglass, fabric, insulation
Hartco 80 Adhesive	9.83	28.00%	22.00%	6.0%	25.93%	N/A	0.02400	10.0	0.80	0.59	0.14	3.40	0.62	0.00	N/A	100%	wood
Hartco 50 Adhesive	10.50	21.72%	13.00%	8.7%	16.36%	N/A	0.01200	10.0	1.09	0.92	0.11	2.64	0.48	0.00	N/A	100%	wood
Hartco Plank Adhesive 40	11.66	38.00%	0.00%	38.0%	0.00%	N/A	0.00900	10.0	4.43	4.43	0.40	9.57	1.75	0.00	N/A	100%	wood
TAC Bond 724	8.25	39.00%	37.00%	2.0%	36.00%	59.00%	0.00900	10.0	0.26	0.17	0.01	0.36	0.07	0.00	0.28	100%	wood

Total Potential Emissions **Worst case coating added to all solvents** **Total** **145** **0.00**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * Flash-off
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day) * Flash-off
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs) * Flash-off
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: Potential Emissions Calculations
VOC and Particulate From Surface Coating Operations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/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 per year	lb VOC /gal solids	Transfer Efficiency	Material Substrate
EU7 RV CAULKS & SEALANTS - COMPLEX WIDE																	
Silicone Glazing Sealant (All colors)	8.66	3.75%	0.00%	3.8%	0.0%	N/A	0.04200	10.0	0.32	0.32	0.14	3.27	0.60	0.00	N/A	100%	metal, wood, plastic, fiberglass
Vulkum Polyurethane Sealant (616 & 626)	11.00	15.00%	0.00%	15.0%	0.0%	90.00%	0.11000	10.0	1.65	1.65	1.82	43.56	7.95	0.00	1.83	100%	metal, wood
Pemco	8.83	0.00%	0.00%	0.0%	0.0%	56.00%	0.07100	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	glass, rubber
SM 5522	8.80	32.74%	0.00%	32.7%	0.0%	62.70%	0.02700	10.0	2.88	2.88	0.78	18.67	3.41	0.00	4.60	100%	fiberglass
Parasil 929 thru 936 series	8.66	3.50%	0.00%	3.5%	0.0%	50.00%	0.05100	10.0	0.30	0.30	0.15	3.71	0.68	0.00	0.61	100%	rubber
Butyl Caulk	10.50	25.00%	0.00%	25.0%	0.0%	N/A	0.00400	10.0	2.63	2.63	0.11	2.52	0.46	0.00	N/A	100%	fiberglass
Colorimetric Polyurethane Sealant	10.41	3.30%	0.00%	3.3%	0.0%	96.70%	0.05600	10.0	0.34	0.34	0.19	4.62	0.84	0.00	0.36	100%	fiberglass
Colorimetric Silicone (all colors)	8.66	5.00%	0.00%	5.0%	0.0%	95.00%	0.18500	10.0	0.43	0.43	0.80	19.23	3.51	0.00	0.46	100%	fiberglass
Colorimetric Caulk (gray)	8.33	37.50%	0.00%	37.5%	0.0%	60.00%	0.00000	10.0	3.12	3.12	0.00	0.00	0.00	0.00	5.21	100%	fiberglass
Sikaflex 255-FC & 268-543	9.80	6.00%	0.00%	6.0%	0.0%	97.00%	0.06800	10.0	0.59	0.59	0.40	9.60	1.75	0.00	0.61	100%	fiberglass
Parbond Clear	7.50	55.00%	0.00%	55.0%	0.0%	N/A	0.00800	10.0	4.13	4.13	0.33	7.92	1.45	0.00	N/A	100%	vinyl
Pemco Roof Sealant (all colors)	7.25	45.00%	0.00%	45.0%	0.0%	N/A	0.01700	10.0	3.26	3.26	0.55	13.31	2.43	0.00	N/A	100%	rubber
Dicor Roof Sealant	10.13	46.00%	0.00%	46.0%	0.0%	70.00%	0.91600	10.0	4.66	4.66	42.68	1024.41	186.95	0.00	6.66	100%	rubber
Ener 10	8.0	100%	0.0%	100.0%	0.0%	0.0%	0.00400	10.0	7.98	7.98	0.32	7.66	1.40	0.00	N/A	100%	plastic
Ener 43	10.0	1.00%	0.0%	1.0%	0.00%	0.00%	0.05809	10.0	0.10	0.10	0.06	1.26	0.25	0.00	N/A	100%	plastic
502 LSW	11.3	40.5%	0.0%	40.5%	0.00%	0.00%	0.63082	10.0	4.56	4.56	28.77	690.37	125.99	0.00	N/A	100%	plastic
CTI-16-36	8.5	0.00%	0.0%	0.0%	0.00%	0.00%	0.70700	10.0	0.00	0.00	0.00	0.00	0.00	0.00	N/A	100%	plastic
88-1009	10.4	3.30%	0.0%	3.3%	0.00%	0.00%	0.05900	10.0	0.34	0.34	0.20	4.81	0.88	0.00	N/A	100%	plastic
88-4312	8.7	6.30%	0.0%	6.3%	0.00%	0.00%	0.39851	10.0	0.54	0.54	2.15	51.65	9.43	0.00	N/A	100%	plastic
88-4322	8.7	6.30%	0.0%	6.3%	0.00%	0.00%	0.12838	10.0	0.54	0.54	0.69	16.64	3.04	0.00	N/A	100%	plastic
88-4332	8.7	6.30%	0.0%	6.3%	0.00%	0.00%	0.18086	10.0	0.54	0.54	0.98	23.44	4.28	0.00	N/A	100%	plastic
C-111	8.3	74.0%	0.0%	74.0%	0.00%	0.00%	0.01650	10.0	6.16	6.16	1.02	24.39	4.45	0.00	N/A	100%	plastic
Mobilbond 34	9.5	18.1%	0.0%	18.1%	0.00%	0.00%	0.17187	10.0	1.72	1.72	2.96	70.95	12.95	0.00	N/A	100%	plastic
ROP 319	9.5	100%	0.0%	100.0%	0.00%	0.00%	0.03258	10.0	9.50	9.50	3.10	74.28	13.56	0.00	N/A	100%	plastic
5557/5908	7.7	46.8%	0.0%	46.8%	0.00%	0.00%	0.00161	10.0	2.82	2.82	0.05	1.09	0.20	0.00	N/A	100%	plastic
501 LSW	9.4	40.0%	0.0%	40.0%	0.00%	0.00%	0.00136	10.0	3.77	3.77	0.05	1.23	0.22	0.00	N/A	100%	plastic
551 LSW	9.6	39.3%	0.0%	39.3%	0.00%	0.00%	0.01494	10.0	3.79	3.79	0.57	13.59	2.48	0.00	N/A	100%	plastic
IF-1102	10.4	1.00%	0.0%	1.0%	0.00%	0.00%	0.00082	10.0	0.10	0.10	0.00	0.02	0.00	0.00	N/A	100%	plastic
Kendall Seal	7.3	46.6%	0.0%	46.6%	0.00%	0.00%	1.56755	10.0	3.42	3.42	53.61	1286.65	234.81	0.00	N/A	100%	plastic
Pronto CA-40	8.8	100%	0.0%	100.0%	0.00%	0.00%	0.00067	10.0	8.76	8.76	0.06	1.41	0.26	0.00	N/A	100%	plastic
3792 Jet Melt	8.1	100%	0.0%	100.0%	0.00%	0.00%	0.02133	10.0	8.08	8.08	1.72	41.36	7.55	0.00	N/A	100%	plastic
8500	12.5	40.0%	0.0%	40.0%	0.00%	0.00%	0.00032	10.0	5.00	5.00	0.02	0.38	0.07	0.00	N/A	100%	plastic
Vulkem 626	9.4	15.0%	0.0%	15.0%	0.00%	0.00%	0.09454	10.0	1.41	1.41	1.33	31.99	5.84	0.00	N/A	100%	plastic
Tite-R-Bond	7.4	98.0%	0.0%	98.0%	0.00%	0.00%	0.06895	10.0	7.26	7.26	5.01	120.14	21.93	0.00	N/A	100%	plastic
Oatey Reg ABS	7.1	78.0%	0.0%	78.0%	0.00%	0.00%	0.00555	10.0	5.52	5.52	0.31	7.35	1.34	0.00	N/A	100%	plastic
Canadian ABS	7.1	78.0%	0.0%	78.0%	0.00%	0.00%	0.01859	10.0	5.52	5.52	1.03	24.63	4.49	0.00	N/A	100%	plastic
Oatey Clnr Clr	6.6	95.0%	0.0%	95.0%	0.00%	0.00%	0.00053	10.0	6.28	6.28	0.03	0.80	0.15	0.00	N/A	100%	plastic
Oatey Purple Clnr	6.6	100%	0.0%	100.0%	0.00%	0.00%	0.00053	10.0	6.61	6.61	0.04	0.84	0.15	0.00	N/A	100%	plastic
Reg PVC Solvent	7.5	90.0%	0.0%	90.0%	0.00%	0.00%	0.00213	10.0	6.75	6.75	0.14	3.45	0.63	0.00	N/A	100%	plastic
All-Purp. Cement	7.1	72.0%	0.0%	72.0%	0.00%	0.00%	0.02089	10.0	5.10	5.10	1.07	25.57	4.67	0.00	N/A	100%	plastic
P-3011	9.0	1.00%	0.0%	1.0%	0.00%	0.00%	0.71755	10.0	0.09	0.09	0.65	15.50	2.83	0.00	N/A	100%	plastic
P-3015 #3036	8.8	100%	0.0%	100.0%	0.00%	0.00%	0.05851	10.0	0.00	0.00	0.00	0.00	0.00	0.00	N/A	100%	plastic
Denat Alcohol	6.8	96.0%	0.0%	96.0%	0.00%	0.00%	0.00798	10.0	6.51	6.51	0.52	12.47	2.28	0.00	N/A	100%	plastic
676 Adhesive	5.7	82.3%	0.0%	82.3%	0.00%	0.00%	1.12887	10.0	4.69	4.69	52.94	1270.66	231.89	0.00	N/A	100%	plastic
SM 7100	12.0	3.00%	0.0%	3.0%	0.00%	0.00%	0.11029	10.0	0.36	0.36	0.40	9.53	1.74	0.00	N/A	100%	plastic
SM 5522	8.8	34.5%	0.0%	34.5%	0.00%	0.00%	0.01292	10.0	3.04	3.04	0.39	9.43	1.72	0.00	N/A	100%	plastic
#260/205 Wipe	7.6	88.0%	0.0%	88.0%	0.00%	0.00%	0.07979	10.0	6.67	6.67	5.32	127.73	23.31	0.00	N/A	100%	plastic
Sika Flex 255FC	9.8	3.70%	0.0%	3.7%	0.00%	0.00%	0.19075	10.0	0.37	0.37	0.71	16.94	3.09	0.00	N/A	100%	plastic
Sika Ultra Fast	10.0	2.80%	0.0%	2.8%	0.00%	0.00%	0.14759	10.0	0.28	0.28	0.41	9.92	1.81	0.00	N/A	100%	plastic
Mineral Spirits	6.6	100%	0.0%	100.0%	0.00%	0.00%	0.01064	10.0	6.58	6.58	0.70	16.80	3.07	0.00	N/A	100%	plastic
Isopropanol	6.5	99.0%	0.0%	99.0%	0.00%	0.00%	0.01596	10.0	6.44	6.44	1.03	24.67	4.50	0.00	N/A	100%	plastic
24030/24040	13.3	26.0%	0.0%	26.0%	0.00%	0.00%	0.01436	10.0	3.47	3.47	0.50	11.96	2.18	0.00	N/A	100%	plastic
S201060 Adhesive	20.0	100%	0.0%	100.0%	0.00%	0.00%	0.00066	10.0	20.02	20.02	0.13	3.17	0.58	0.00	N/A	100%	plastic
Total Potential Emissions			**Worst case coating added to all solvents**									**Total**	**950**	**0.00**			

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * Flash-off
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day) * Flash-off
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs) * Flash-off
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: Potential Emissions Calculations
VOC and Particulate From Surface Coating Operations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/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 per year	lb VOC /gal solids	Transfer Efficiency	Material Substrate
EU8 RV PLUMING (CLEANERS AND ADHESIVES)																	
ABS Plastic Pipe Cement	7.00	85.00%	0.00%	85.0%	0.0%	N/A	0.05400	10.0	5.95	5.95	3.21	77.11	14.07	0.00	N/A	100%	pvc, plastic
EU9 UNDERCOATING - COMPLEX WIDE																	
Undercoating with Spray Gun (Seal N Sound)	7.34	47.00%	0.00%	47.0%	0.0%	49.00%	0.98200	10.0	3.45	3.45	33.88	813.05	148.38	41.83	7.04	75%	metal
EU10 RV/RV PARTS AND EQUIPMENT CLEANING																	
Isopropanol	6.51	100.00%	0.00%	100.0%	0.0%	0.00%	0.04700	10.0	6.51	6.51	3.06	73.43	13.40	0.00	N/A	100%	metal, fiberglass, plastic
Methylene Chloride	11.00	100.00%	0.00%	100.0%	0.0%	0.00%	0.00100	10.0	11.00	11.00	0.11	2.64	0.48	0.00	N/A	100%	metal
Mineral Spirits	6.58	100.00%	0.00%	100.0%	0.0%	0.00%	0.07500	10.0	6.58	6.58	4.94	118.44	21.62	0.00	N/A	100%	metal, fiberglass, plastic
Denatured Alcohol	6.78	100.00%	4.00%	96.0%	3.26%	0.00%	0.00200	10.0	6.73	6.51	0.13	3.12	0.57	0.00	N/A	100%	metal, fiberglass
Lacquer Thinner	8.08	100.00%	56.00%	44.0%	68.14%	0.00%	0.03000	10.0	11.16	3.56	1.07	25.60	4.67	0.00	N/A	100%	metal
Enamel Reducer 3812	7.50	100.00%	0.00%	100.0%	0.0%	0.00%	0.11500	10.0	7.50	7.50	8.63	207.00	37.78	0.00	N/A	100%	metal, fiberglass, plastic
Glass Cleaner	8.01	100.00%	0.00%	100.0%	0.0%	0.00%	0.00700	10.0	8.01	8.01	0.56	13.46	2.46	0.00	N/A	100%	glass
C60 Solvent Degreaser	8.33	96.60%	0.00%	96.6%	0.0%	3.63%	0.00400	10.0	8.05	8.05	0.32	7.72	1.41	0.00	221.67	100%	metal, fiberglass, plastic
Orange 88 Degreaser	8.30	10.00%	0.00%	10.0%	0.0%	96.04%	0.02800	10.0	0.83	0.83	0.23	5.58	1.02	0.00	0.86	100%	metal, fiberglass, plastic

Total Potential Emissions **Worst case coating added to all solvents**

Total	**246**	**41.8**
Control Efficiency 90%		
Controlled PM/PM10 Emissions		**4.18**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * Flash-off
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day) * Flash-off
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs) * Flash-off
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: Potential Emissions Calculations
VOC and Particulate From Surface Coating Operations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/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 per year	lb VOC /gal solids	Transfer Efficiency	Material Substrate
EU12 RV COATING - FRAME PAINTING (PRIMER)																	
Gray Water Reducible Enamel	10.35	56.19%	42.37%	13.8%	49.67%	28.80%	0.32200	10.0	2.84	1.43	4.61	110.54	20.17	15.99	4.97	75%	metal
EU12 RV COATING - FRAME PAINTING																	
Black Water Reducible Enamel	8.50	72.89%	56.42%	16.5%	57.58%	21.00%	0.99300	10.0	3.30	1.40	13.90	333.64	60.89	25.06	6.67	75%	metal
Automotive Paint	10.83	48.00%	0.00%	48.0%	0.00%	40.00%	0.21300	10.0	5.20	5.20	11.07	265.74	48.50	13.13	13.00	75%	metal
EU12 RV COATING - ENAMEL																	
Gloss Black Paint	6.08	90.00%	20.00%	70.0%	18.32%	N/A	0.11900	10.0	5.21	4.26	5.06	121.55	22.18	1.58	N/A	50%	metal
EU14 PAINT THINNER/REDUCERS																	
Lacquer Thinner	6.99	100.00%	0.00%	100.0%	0.0%	0.00%	0.01400	10.0	6.99	6.99	0.98	23.49	4.29	0.00	N/A	75%	metal
Primer Reducer	8.00	89.00%	0.00%	89.0%	0.0%	50.00%	0.08500	10.0	7.12	7.12	6.05	145.25	26.51	0.82	14.24	75%	metal
Gun Cleaner	9.51	95.00%	0.0%	95.0%	0.0%	5.00%	0.00300	10.0	9.03	9.03	0.27	6.50	1.19	0.02	180.69	75%	metal
Toluene	7.26	100.00%	0.0%	100.0%	0.0%	0.00%	0.02100	10.0	7.26	7.26	1.52	36.59	6.68	0.00	N/A	75%	metal
Plant No. 220																	
WR HAPs free enamel	9.80	28.00%	0.0%	28.0%	0.0%	72.00%	1.00	1.00	2.74	2.74	2.74	65.86	12.02	7.73	N/A	75%	metal
Plant 250 Touch Up Booth																	
Base Coat	7.50	0.0%	0.0%	79.0%	0.00%	12.5%	0.750	0.250	5.92	5.92	1.11	26.65	4.86	1.54	N/A	75%	metal
Flex Seal Sealer	9.30	0.0%	0.0%	26.1%	0.00%	49.1%	0.750	0.125	2.42	2.42	0.23	5.45	0.99	0.95	N/A	75%	metal
Glamour Clear Coat	8.10	0.0%	0.0%	50.0%	0.00%	49.8%	0.750	0.125	4.05	4.05	0.38	9.11	1.66	0.83	N/A	75%	metal

Total Potential Emissions **Worst case coating added to all solvents** **Total** **210** **67.7**

Control Efficiency 90%
Controlled PM/PM10 Emissions **6.77**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * Flash-off
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day) * Flash-off
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs) * Flash-off
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

HAP Emission Calculations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Toluene	Weight % Hexane	Weight % Methanol	Weight % 1,1,1 trichlorethane	Weight % Xylene	Weight % Dibutylphthalate	Toluene Emissions (tons/yr)	Hexane Emissions (tons/yr)	Methanol Emissions (tons/yr)	1,1,1 trichloroethane Emissions (tons/yr)	Xylene Emissions (tons/yr)	Dibutyl Emissions (tons/yr)	Total HAPs (tons/year)
EU7 RV CAULKS & SEALANTS- COMPLEX WIDE																
Silicone Glazing Sealant (All colors)	8.66	0.04200	10.0	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
Vulkum Polyurethane Sealant (616 & 626)	11.00	0.11000	10.0	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
Pemco	8.83	0.07100	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00	0.00	0.00	0.00	0.00	0.82	0.82
SM 5522	8.80	0.02700	10.0	33.10%	0.00%	0.00%	0.00%	0.00%	0.00%	3.44	0.00	0.00	0.00	0.00	0.00	3.44
Parasil 929 thru 936 series	8.66	0.05100	10.0	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
Butyl Caulk	10.50	0.00400	10.0	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
Colorimetric Polyurethane Sealant	10.41	0.05600	10.0	0.00%	0.00%	0.00%	0.00%	3.30%	0.00%	0.00	0.00	0.00	0.00	0.84	0.00	0.84
Colorimetric Silicone (all colors)	8.66	0.18500	10.0	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
Colorimetric Caulk (gray)	8.33	0.00000	10.0	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
Sikaflex 255-FC & 268-543	9.80	0.06800	10.0	0.00%	0.00%	0.00%	0.00%	6.00%	0.00%	0.00	0.00	0.00	0.00	1.75	0.00	1.75
Parbond Clear	7.50	0.00800	10.0	55.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.45	0.00	0.00	0.00	0.00	0.00	1.45
Pemco Roof Sealant (all colors)	7.25	0.01700	10.0	45.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.43	0.00	0.00	0.00	0.00	0.00	2.43
Dicor Roof Sealant	10.13	0.91600	10.0	46.00%	0.00%	0.00%	0.00%	0.00%	0.00%	187.0	0.00	0.00	0.00	0.00	0.00	187
Ener 10	8.0	0.00400	10.0	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
Ener 43	10.0	0.05809	10.0	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
502 LSW	11.3	0.63082	10.0	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	62.2	0.00	0.00	0.00	0.00	0.00	62.2
CTI-16-36	8.5	0.70700	10.0	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
88-1009	10.4	0.05900	10.0	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
88-4312	8.7	0.39851	10.0	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
88-4322	8.7	0.12838	10.0	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
88-4332	8.7	0.18086	10.0	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
C-111	8.3	0.01650	10.0	30.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.81	0.00	0.00	0.00	0.00	0.00	1.81
Mobilbond 34	9.5	0.17187	10.0	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
ROP 319	9.5	0.03258	10.0	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
5557/5908	7.7	0.00161	10.0	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.27	0.00	0.00	0.00	0.00	0.00	0.270
501 LSW	9.4	0.00136	10.0	40.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22	0.00	0.00	0.00	0.00	0.00	0.224
551 LSW	9.6	0.01494	10.0	34.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.14	0.00	0.00	0.00	0.00	0.00	2.14
IF-1102	10.4	0.00082	10.0	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
Kendall Seal	7.3	1.56755	10.0	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
Pronto CA-40	8.8	0.00067	10.0	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
3792 Jet Melt	8.1	0.02133	10.0	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
8500	12.5	0.00032	10.0	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
Vulkem 626	9.4	0.09454	10.0	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
Tite-R-Bond	7.4	0.06895	10.0	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11.19	0.00	0.00	0.00	0.00	0.00	11.2
Oatey Reg ABS	7.1	0.00555	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Canadian ABS	7.1	0.01859	10.0	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
Oatey Clnr Clr	6.6	0.00053	10.0	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
Oatey Purple Clnr	6.6	0.00053	10.0	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
Reg PVC Solvent	7.5	0.00213	10.0	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
All-Purp. Cement	7.1	0.02089	10.0	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
P-3011	9.0	0.71755	10.0	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
P-3015 #3036	8.8	0.05851	10.0	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
Denat Alcohol	6.8	0.00798	10.0	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
676 Adhesive	5.7	1.12887	10.0	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	112.73	0.00	0.00	0.00	0.00	113
SM 7100	12.0	0.11029	10.0	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.74	0.00	0.00	0.00	0.00	0.00	1.74
SM 5522	8.8	0.01292	10.0	33.10%	0.00%	0.00%	0.00%	0.00%	0.00%	1.65	0.00	0.00	0.00	0.00	0.00	1.65
#260/205 Wipe	7.6	0.07979	10.0	0.00%	0.00%	98.00%	0.00%	0.00%	0.00%	0.00	0.00	25.96	0.00	0.00	0.00	26.0
Sika Flex 255FC	9.8	0.19075	10.0	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00	0.00	0.00	0.00	4.09	0.00	4.09
Sika Ultra Fast	10.0	0.14759	10.0	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00	0.00	0.00	0.00	3.23	0.00	3.23
Mineral Spirits	6.6	0.01064	10.0	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
Isopropano	6.5	0.01596	10.0	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
24030/24040	13.3	0.01436	10.0	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
S201060 Adhesive	20.0	0.00066	10.0	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
									Total	**276**	**113**	**26.0**	**0.00**	**9.92**	**0.824**	**425**

Total Potential Emissions

METHODOLOGY

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

HAP Emission Calculations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Toluene	Weight % Hexane	Weight % Methanol	Weight % 1,1,1 trichlor-ethane	Weight % Xylene	Weight % Dibutyl phthalate	Toluene Emissions (tons/yr)	Hexane Emissions (tons/yr)	Methanol Emissions (tons/yr)	1,1,1 trichloroethane Emissions (tons/yr)	Xylene Emissions (tons/yr)	Dibutyl Emissions (tons/yr)	Total HAPs (tons/year)
EU8 RV PLUMING (CLEANERS AND ADHESIVES)																
ABS Plastic Pipe Cement	7.00	0.05400	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.0
EU9 UNDERCOATING COMPLEX WIDE																
Undercoating with Spray Gun (Seal N Sound)	7.34	0.98200	10.0	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
EU10 RV/RV PARTS AND EQUIPMENT CLEANING																
Isopropanol	6.51	0.04700	10.0	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
Methylene Chloride	11.00	0.00100	10.0	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
Mineral Spirits	6.58	0.07500	10.0	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
Denatured Alcohol	6.78	0.00200	10.0	0.00%	0.00%	4.00%	0.00%	0.00%	0.00%	0.00	0.00	0.02	0.00	0.00	0.00	0.024
Lacquer Thinner	8.08	0.03000	10.0	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.12	0.00	0.00	0.00	0.00	0.00	2.12
Enamel Reducer 3812	7.50	0.11500	10.0	51.00%	0.00%	0.00%	0.00%	0.00%	0.00%	19.27	0.00	0.00	0.00	0.00	0.00	19.3
Glass Cleaner	8.01	0.00700	10.0	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
C60 Solvent Degreaser	8.33	0.00400	10.0	0.00%	0.00%	0.00%	96.60%	0.00%	0.00%	0.00	0.00	0.00	1.41	0.00	0.00	1.41
Orange 88 Degreaser	8.30	0.02800	10.0	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
EU12 RV COATING - FRAME PAINTING (PRIMER)																
Gray Water Reducible Enamel	10.35	0.32200	10.0	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
EU12 RV COATING - FRAME PAINTING																
Black Water Reducible Enamel	8.50	0.99300	10.0	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
Automotive Paint	10.83	0.21300	10.0	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
EU12 RV COATING - ENAMEL																
Gloss Black Paint	6.23	0.11900	10.0	12.00%	0.00%	0.00%	0.00%	18.00%	0.00%	3.90	0.00	0.00	0.00	5.84	0.00	9.74
Total Potential Emissions									**Total**	**25.3**	**0.00**	**0.024**	**1.41**	**5.84**	**0.00**	**32.6**

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

HAP Emission Calculations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Materia	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Methylene Chloride	Weight % Glycol Ethers	Weight % Ethyl Benzene	Weight % MIBK	Weight % Phenol	Methylene Chloride Emissions (tons/yr)	Glycol Ethers Emissions (tons/yr)	Ethyl Benzene Emissions (tons/yr)	MIBK Emissions (tons/yr)	Phenol Emissions (tons/yr)	Total HAPs (tons/yr)
EU3 General Construction Adhesives - Complexwide														
Construction Adhesive 40	9.54	0.29300	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
(2)676 High Perf. Spray Adhesive	5.70	0.49300	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Hartco 80 Adhesive	9.83	0.02400	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Hartco 50 Adhesive	10.50	0.01200	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Hartco Plank Adhesive 40	11.66	0.00900	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
TAC Bond 724	8.25	0.00900	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
EU7 RV CAULKS & SEALANTS- COMPLEX WIDE														
Silicone Glazing Sealant (All colors)	8.66	0.04200	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Vulkum Polyurethane Sealant (616 & 626)	11.00	0.11000	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Pemco	8.83	0.07100	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
SM 5522	8.80	0.02700	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Parasil 929 thru 936 series	8.66	0.05100	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Butyl Caulk	10.50	0.00400	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Colorimetric Polyurethane Sealant	10.41	0.05600	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Colorimetric Silicone (all colors)	8.66	0.18500	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Colorimetric Caulk (gray)	8.33	0.00000	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Sikaflex 255-FC & 268-543	9.80	0.06800	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Parbond Clear	7.50	0.00800	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Pemco Roof Sealant (all colors)	7.25	0.01700	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Dicor Roof Sealant	10.13	0.91600	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
EU8 RV PLUMING (CLEANERS AND ADHESIVES)														
ABS Plastic Pipe Cement	7.00	0.05400	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
EU9 UNDERCOATING - COMPLEX WIDE														
Undercoating with Spray Gun (Seal N Sound)	7.34	0.98200	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
EU10 RV/RV PARTS AND EQUIPMENT CLEANING														
Isopropanol	6.51	0.04700	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Methylene Chloride	11.00	0.00100	10.0	100.00%	0.00%	0.00%	0.00%	0.00%	0.48	0.00	0.00	0.00	0.00	0.48
Mineral Spirits	6.58	0.07500	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Denatured Alcohol	6.78	0.00200	10.0	0.00%	0.00%	0.00%	1.00%	0.00%	0.00	0.00	0.00	0.01	0.00	0.01
Lacquer Thinner	8.08	0.03000	10.0	0.00%	6.00%	0.00%	0.00%	0.00%	0.00	0.64	0.00	0.00	0.00	0.64
Enamel Reducer 3812	7.50	0.11500	10.0	0.00%	5.00%	0.00%	0.00%	0.00%	0.00	1.89	0.00	0.00	0.00	1.89
Glass Cleaner	8.01	0.00700	10.0	0.00%	5.00%	0.00%	0.00%	0.00%	0.00	0.12	0.00	0.00	0.00	0.12
C60 Solvent Degreaser	8.33	0.00400	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Orange 88 Degreaser	8.30	0.02800	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
EU12 RV COATING - FRAME PAINTING (PRIMER)														
Gray Water Reducible Enamel	10.35	0.32200	10.0	0.00%	6.00%	0.00%	0.00%	0.00%	0.00	8.76	0.00	0.00	0.00	8.76
EU12 RV COATING - FRAME PAINTING														
Black Water Reducible Enamel	8.50	0.99300	10.0	0.00%	12.00%	0.00%	0.00%	0.00%	0.00	44.36	0.00	0.00	0.00	44.36
Automotive Pain	10.83	0.21300	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
EU12 RV COATING - ENAMEL														
Gloss Black Paint - Aerosol	6.23	0.11900	10.0	0.00%	0.00%	3.00%	0.00%	0.00%	0.00	0.00	0.97	0.00	0.00	0.97
Total Potential Emissions								**Total**	**0.482**	**55.8**	**0.974**	**0.006**	**0.00**	**57.2**

METHODOLOGY

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

HAP Emission Calculations

Company Name: Coachmen Recreational Vehicle, LLC Middlebury
Plant Location: 423 North Main Street, Middlebury, IN 46540
Permit Number: T 039-17984-00062
Permit Reviewer: Brian J. Pedersen
Date: April 4, 2007

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Toluene	Weight % Hexane	Weight % Methanol	Weight % 1,1,1 trichlor-ethane	Weight % Xylene	Weight % Dibutyl phthalate	Toluene Emissions (tons/yr)	Hexane Emissions (tons/yr)	Methanol Emissions (tons/yr)	1,1 trichloroethai Emissions (tons/yr)	Xylene Emissions (tons/yr)	Dibutyl Emissions (tons/yr)	Total HAPs (tons/yr)
EU3 General Construction Adhesives - Complexwide																
Construction Adhesive 40	9.54	0.29300	10.0	30.00%	5.00%	0.00%	0.00%	0.00%	0.00%	36.7	6.12	0.00	0.00	0.00	0.00	42.85
(2)676 High Perf. Spray Adhesive	5.70	0.49300	10.0	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	49.23	0.00	0.00	0.00	0.00	49.23
Hartco 80 Adhesive	9.83	0.02400	10.0	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
Hartco 50 Adhesive	10.50	0.01200	10.0	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
Hartco Plank Adhesive 40	11.66	0.00900	10.0	0.00%	0.00%	0.00%	38.00%	0.00%	0.00%	0.00	0.00	0.00	1.75	0.00	0.00	1.75
TAC Bond 724	8.25	0.00900	10.0	1.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.03	0.00	0.16	0.00	0.00	0.00	0.20
EU14 PAINT THINNER/REDUCERS																
Lacquer Thinner	6.99	0.01400	10.0	55.00%	0.00%	15.00%	0.00%	0.00%	0.00%	2.36	0.00	0.64	0.00	0.00	0.00	3.00
Primer Reducer	8.00	0.08500	10.0	15.00%	0.00%	0.00%	0.00%	10.00%	0.00%	4.47	0.00	0.00	0.00	2.98	0.00	7.45
Gun Cleaner	9.51	0.00300	10.0	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
Toluene	7.26	0.02100	10.0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	6.68	0.00	0.00	0.00	0.00	0.00	6.68
									Total	**50.3**	**55.4**	**0.806**	**1.75**	**2.98**	**0.00**	**111**

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Methylene Chloride	Weight % Glycol Ethers	Weight % Ethyl Benzene	Weight % MIBK	Weight % Phenol	Methylene Chloride Emissions (tons/yr)	Glycol Ethers Emissions (tons/yr)	Ethyl Benzene Emissions (tons/yr)	MIBK Emissions (tons/yr)	Phenol Emissions (tons/yr)	Total HAPs (tons/yr)
EU14 PAINT THINNER/REDUCERS														
Lacquer Thinner	6.99	0.01400	10.0	0.00%	0.00%	0.00%	15.00%	0.00%	0.00	0.00	0.00	0.64	0.00	0.64
Primer Reducer	8.00	0.08500	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Gun Cleaner	9.51	0.00300	10.0	60.00%	0.00%	0.00%	0.00%	10.00%	0.75	0.00	0.00	0.00	0.12	0.87
Toluene	7.26	0.02100	10.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
								Total	**0.750**	**0.00**	**0.00**	**0.643**	**0.125**	**1.52**

Total Potential Emissions

Methodology

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