



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
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TO: Interested Parties / Applicant
DATE: November 20, 2007
RE: Meridian Automotive Systems / 003-23272-00059
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

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

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

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

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

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

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



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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Meridian Automotive Systems
14123 Roth Road
Grabill, Indiana 46741**

(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 003-23272-00059 | |
| Issued by: Origin signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality | Issuance Date: November 20, 2007 Expiration Date: November 20, 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 high pressure fiberglass reinforced-thermoset manufacturing and painting source.

| | |
|------------------------------|--|
| Source Address: | 14123 Roth Road, Grabill, Indiana 46741 |
| Mailing Address: | 14123 Roth Road, Grabill, Indiana 46741 |
| General Source Phone Number: | 260 - 267 - 3612 |
| SIC Code: | 3089 |
| County Location: | Allen |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Part 70 Operating Permit Program Minor Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories |

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

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

Boilers

- (a) One (1) boiler, identified as BLR-A, firing natural gas as primary fuel and diesel fuel as backup, installed in 2000, exhausted through Stack M, rated at 16.7 million British thermal units per hour.
- (b) One (1) boiler, identified as BLR-B, installed in 1974, firing natural gas as primary fuel and diesel fuel as backup, rated at 8.4 million British thermal units per hour.

Painting Operations

- (c) One (1) spray booth, identified as SB-A, equipped with HVLP spray applicators or with equivalent or better spray applicators and dry filters for overspray control, installed in September 1993 and modified in May 2003, exhausted through Stack G, capacity: 13.9 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (d) One (1) spray booth, identified as SB-B, equipped with air atomization spray guns and dry filters for overspray control, installed in June 1973, exhausted through Stacks I, J, and K, capacity: 10 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.

- (e) One (1) spray booth, identified as SB-C24, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks D and E, capacity: 3 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (f) One (1) spray booth, identified as SB-C32, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks B and C, capacity: 4 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.

Compounding and Reinforced Molding Operations

- (g) Two (2) SMC manufacturing lines, identified as Machine 1 and Machine 2, reconstructed and relocated in 2003, with a capacity of 12,000 pounds of SMC per hour, each, and one (1) SMC manufacturing line, identified as Machine 3, installed in 2004, with a capacity of 2,670 pounds of SMC per hour, consisting of the following. Under 40 CFR 63 (NESHAP), Subpart WWWW, this is considered a sheet molding compound (SMC) manufacturing operation:
 - (1) eighteen (18) resin storage tanks, with storage capacities between 2,000 and 6,300 gallons, each,
 - (2) one (1) small add material handling area,
 - (3) one (1) SMC mix room, consisting of four (4) mixing tanks, seven (7) holding tanks, and six (6) dynamic mixers,
 - (4) three (3) SMC manufacturing operations,
 - (5) one (1) SMC maturation area,
 - (6) two (2) calcium carbonate silos, storing 270,000 pounds, and
 - (7) one (1) dust collection system, exhausted through Stack SV-01.
- (h) Nineteen (19) injection or compression molding SMC presses. Under 40 CFR 63 (NESHAP), Subpart WWWW, each of the presses is considered a sheet molding compound (SMC) closed molding operation:
 - (1) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0419, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (2) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0420, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (3) One (1) Erie 600 ton reinforced plastic molding press, identified as PR-0618, installed in 1968 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (4) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1222, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
 - (5) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press,

identified as PRV-1223, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.

- (6) One (1) W-W-M 1200 ton reinforced plastic molding press, identified as PRV-1250, installed in 1978 and rebuilt in 1985, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (7) One (1) Erie 1500 ton vacuum assisted reinforced plastic molding press, identified as PRV-1558, installed in 1977, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (8) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2024, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (9) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2025, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (10) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2059, installed in 1984, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (11) One (1) 2500 ton reinforced plastic molding press, identified as PR-2566, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2572.
- (12) One (1) 2500 ton reinforced plastic molding press, identified as PR-2567, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2573.
- (13) One (1) W-W-M 4400 ton vacuum assisted reinforced plastic molding press, identified as PRV-4470, installed in 1995, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (14) One (1) French 600 ton vacuum assisted reinforced plastic molding press, identified as PRV-0648, installed in 1978 and rebuilt in 1990, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (15) One (1) French 800 ton vacuum assisted reinforced plastic molding press, identified as PRV-0849, installed in 1978 and rebuilt in 1990, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (16) One (1) EEMCO 1,000 ton vacuum assisted reinforced plastic molding press, identified as PRV-1026, installed in 1977 and rebuilt in 1990, capacity: 275 pounds of fiberglass reinforced plastic parts per hour.
- (17) One (1) HPM Corporation Injection Molding Press, identified as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (18) One (1) 2,000-ton HPM Corporation injection molding press, identified as PR-2072, installed in 2004, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (19) One (1) 1,000-ton HPM Corporation injection molding press, identified as PR-1073, installed in 2005, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

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

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

- (a) One (1) hook oven, identified as BO-PH, installed in 1991, exhausted to stack Q, rated at 0.4 million British thermal units per hour, capacity: 10 pounds of waste per hour. [326 IAC 4-2-2]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (c) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone. [326 IAC 6-3-2]
- (d) Drilling, Trimming, Sanding of Fiberglass Reinforced Plastic Parts. [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 003-23272-00059, 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 July 1 of each year to:

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

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 within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
 - (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

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

The notice fulfills the requirement of 326 IAC 2-7-5(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 003-23272-00059 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 non-compliance 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/or 326 IAC 2-3-2.

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring

compliance with this permit or applicable requirements.

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
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). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

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

Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by 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.8 Performance Testing [326 IAC 3-6]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by 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.9 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.10 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.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

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

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

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

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

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on June 19, 2002.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

- (1) initial inspection and evaluation
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred 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.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- (a) 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 require-

ments:

- (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
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/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.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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(II)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) boiler, identified as BLR-A, firing natural gas as primary fuel and diesel fuel as backup, installed in 2000, exhausted through Stack M, rated at 16.7 million British thermal units per hour.
- (b) One (1) boiler, identified as BLR-B, installed in 1974, firing natural gas as primary fuel and diesel fuel as backup, rated at 8.4 million British thermal units per hour.

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

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

D.1.1 Particulate [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(e), the allowable particulate emission rate from the one (1) boiler, identified as BLR-B, shall not exceed 0.6 pounds per million British thermal units heat input.

D.1.2 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the particulate emissions from the one (1) boiler, identified as BLR-A, shall not exceed 0.472 pounds per million Btu heat input (lb/MMBtu). This limitation was calculated using the following equation:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. For this unit, Q = 25.1 MMBtu/hr.

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ emissions from the one (1) boiler (BLR-A) shall not exceed five-tenths (0.5) pound per million British thermal units heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

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 the one (1) boiler (BLR-A).

Compliance Determination Requirements

D.1.5 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million British thermal units heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the one (1) boiler (BLR-A), using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

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

D.1.6 Visible Emissions Notations

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

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

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (6) below. Note that pursuant to 40 CFR 60, Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.
 - (1) Calendar dates covered in the compliance determination period;

- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

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

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

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

- (b) To document compliance with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations of the boiler BLR-A stack exhaust (Stack M). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.8 Reporting Requirement

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

New Source Performance Standards (NSPS) Requirements

D.1.9 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the boiler (BLR-A) except as otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports 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

D.1.10 Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12 for the boiler (BLR-A) as specified as follows:

§ 60.40c Applicability and delegation of authority.

(a) Except as provided in paragraph (d) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units which meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (§§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in §60.41c.

(d) Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under §60.14.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 71 FR 9884, Feb. 27, 2006]

§ 60.41c Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

Annual capacity factor means the ratio between the actual heat input to a steam generating unit from an individual fuel or combination of fuels during a period of 12 consecutive calendar months and the potential heat input to the steam generating unit from all fuels had the steam generating unit been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity. In the case of steam generating units that are rented or leased, the actual heat input shall be determined based on the combined heat input from all operations of the affected facility during a period of 12 consecutive calendar months.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388-77, 90, 91, 95, or 98a, Standard Specification for Classification of Coals by Rank (IBR—see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

Coal refuse means any by-product of coal mining or coal cleaning operations with an ash content greater than 50 percent (by weight) and a heating value less than 13,900 kilojoules per kilogram (kJ/kg) (6,000 Btu per pound (Btu/lb) on a dry basis.

Cogeneration steam generating unit means a steam generating unit that simultaneously produces both electrical (or mechanical) and thermal energy from the same primary energy source.

Combined cycle system means a system in which a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or more effective prevention or control of air pollutant emissions from combustion, provided that, during these periods of

research and development, the heat generated is not used for any purpose other than preheating combustion air for use by that steam generating unit (i.e., the heat generated is released to the atmosphere without being used for space heating, process heating, driving pumps, preheating combustion air for other units, generating electricity, or any other purpose).

Conventional technology means wet flue gas desulfurization technology, dry flue gas desulfurization technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (incorporated by reference—see §60.17).

Dry flue gas desulfurization technology means a sulfur dioxide (SO₂) control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline reagents used in dry flue gas desulfurization systems include, but are not limited to, lime and sodium compounds.

Duct burner means a device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Emerging technology means any SO₂ control system that is not defined as a conventional technology under this section, and for which the owner or operator of the affected facility has received approval from the Administrator to operate as an emerging technology under §60.48c(a)(4).

Federally enforceable means all limitations and conditions that are enforceable by the Administrator, including the requirements of 40 CFR Parts 60 and 61, requirements within any applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 40 CFR 51.24.

Fluidized bed combustion technology means a device wherein fuel is distributed onto a bed (or series of beds) of limestone aggregate (or other sorbent materials) for combustion; and these materials are forced upward in the device by the flow of combustion air and the gaseous products of combustion. Fluidized bed combustion technology includes, but is not limited to, bubbling bed units and circulating bed units.

Fuel pretreatment means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

Heat input means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and kilns).

Heat transfer medium means any material that is used to transfer heat from one point to another point.

Maximum design heat input capacity means the ability of a steam generating unit to combust a stated maximum amount of fuel (or combination of fuels) on a steady state basis as determined by the physical design and characteristics of the steam generating unit.

Natural gas means (1) a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane, or (2) liquefied petroleum (LP) gas, as defined by the American Society for Testing and Materials in ASTM D1835–86, 87, 91, or 97, “Standard Specification for Liquefied Petroleum Gases” (incorporated by reference—see §60.17).

Noncontinental area means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

Oil means crude oil or petroleum, or a liquid fuel derived from crude oil or petroleum, including distillate oil and residual oil.

Potential sulfur dioxide emission rate means the theoretical SO₂ emissions (nanograms per joule [ng/J], or pounds per million Btu [lb/million Btu] heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

Process heater means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (incorporated by reference—see §60.17).

Steam generating unit means a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.

Steam generating unit operating day means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

Wet flue gas desulfurization technology means an SO₂ control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a liquid material. This definition includes devices where the liquid material is subsequently converted to another form. Alkaline reagents used in wet flue gas desulfurization systems include, but are not limited to, lime, limestone, and sodium compounds.

Wet scrubber system means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of particulate matter (PM) or SO₂.

Wood means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including but not limited to sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 65 FR 61752, Oct. 17, 2000; 71 FR 9884, Feb. 27, 2006]

§ 60.42c Standard for sulfur dioxide.

(d) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 215 ng/J (0.50 lb/million Btu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.

(h) For affected facilities listed under paragraphs (h)(1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable.

(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 million Btu/hr).

(i) The SO₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.

(j) Only the heat input supplied to the affected facility from the combustion of coal and oil is counted under this section. No credit is provided for the heat input to the affected facility from wood or other fuels or for heat derived from exhaust gases from other sources, such as stationary gas turbines, internal combustion engines, and kilns.

[55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000; 71 FR 9884, Feb. 27, 2006]

§ 60.44c Compliance and performance test methods and procedures for sulfur dioxide.

(g) For oil-fired affected facilities where the owner or operator seeks to demonstrate compliance with the fuel oil sulfur limits under §60.42c based on shipment fuel sampling, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the owner or operator of the affected facility shall sample the oil in the fuel tank after each new shipment of oil is received, as described under §60.46c(d)(2).

(h) For affected facilities subject to §60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification, the certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable.

[55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000]

§ 60.46c Emission monitoring for sulfur dioxide

(e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, as described under §60.48c(f) (1), (2), or (3), as applicable.

[55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000]

§ 60.48c Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

(2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

(4) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

(b) The owner or operator of each affected facility subject to the SO₂ emission limits of §60.42c, or the PM or opacity limits of §60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B.

(d) The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit reports to the Administrator.

(e) The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.

(1) Calendar dates covered in the reporting period.

(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), or (3) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

(f) Fuel supplier certification shall include the following information:

(1) For distillate oil:

(i) The name of the oil supplier; and

(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c.

(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. The owner or operator of an affected facility that only burns very low sulfur fuel oil or other liquid or gaseous fuels with potential sulfur dioxide emissions rate of 140 ng/J (0.32 lb/MMBtu) heat input or less shall record and maintain records of the fuels combusted during each calendar month.

(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

(j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

[55 FR 37683, Sept. 12, 1990, as amended at 64 FR 7465, Feb. 12, 1999; 65 FR 61753, Oct. 17, 2000; 71 FR 9886, Feb. 27, 2006]

D.1.11 State Only Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [326 IAC 12]

Pursuant to 326 IAC 12, for the boiler (BLR-A), the Permittee shall record and maintain records of the amounts of each fuel combusted during each day.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Painting and Molding Operations

- (c) One (1) spray booth, identified as SB-A, equipped with HVLP spray applicators or with equivalent or better spray applicators and dry filters for overspray control, installed in September 1993 and modified in May 2003, exhausted through Stack G, capacity: 13.9 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (d) One (1) spray booth, identified as SB-B, equipped with air atomization spray guns and dry filters for overspray control, installed in June 1973, exhausted through Stacks I, J, and K, capacity: 10 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (e) One (1) spray booth, identified as SB-C24, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks D and E, capacity: 3 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (f) One (1) spray booth, identified as SB-C32, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks B and C, capacity: 4 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (g) Two (2) SMC manufacturing lines, identified as Machine 1 and Machine 2, reconstructed and relocated in 2003, with a capacity of 12,000 pounds of SMC per hour, each, and one (1) SMC manufacturing line, identified as Machine 3, installed in 2004, with a capacity of 2,670 pounds of SMC per hour, consisting of the following. Under 40 CFR 63 (NESHAP), Subpart WWWW, this is considered a sheet molding compound (SMC) manufacturing operation:
 - (1) eighteen (18) resin storage tanks, with storage capacities between 2,000 and 6,300 gallons, each,
 - (2) one (1) small add material handling area,
 - (3) one (1) SMC mix room, consisting of four (4) mixing tanks, seven (7) holding tanks, and six (6) dynamic mixers,
 - (4) three (3) SMC manufacturing operations,
 - (5) one (1) SMC maturation area,
 - (6) two (2) calcium carbonate silos, storing 270,000 pounds, and
 - (7) one (1) dust collection system, exhausted through Stack SV-01.
- (h) Nineteen (19) injection or compression molding SMC presses. Under 40 CFR 63 (NESHAP), Subpart WWWW, each of the presses is considered a sheet molding compound (SMC) closed molding operation:
 - (1) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0419, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (2) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0420, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (3) One (1) Erie 600 ton reinforced plastic molding press, identified as PR-0618, installed in 1968 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (4) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1222, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
 - (5) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1223, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.

Facility Description [326 IAC 2-7-5(15)]: Painting and Molding Operations (continued)

- (6) One (1) W-W-M 1200 ton reinforced plastic molding press, identified as PRV-1250, installed in 1978 and rebuilt in 1985, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (7) One (1) Erie 1500 ton vacuum assisted reinforced plastic molding press, identified as PRV-1558, installed in 1977, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (8) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2024, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (9) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2025, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (10) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2059, installed in 1984, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (11) One (1) 2500 ton reinforced plastic molding press, identified as PR-2566, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2572.
- (12) One (1) 2500 ton reinforced plastic molding press, identified as PR-2567, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2573.
- (13) One (1) W-W-M 4400 ton vacuum assisted reinforced plastic molding press, identified as PRV-4470, installed in 1995, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (14) One (1) French 600 ton vacuum assisted reinforced plastic molding press, identified as PRV-0648, installed in 1978 and rebuilt in 1990, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (15) One (1) French 800 ton vacuum assisted reinforced plastic molding press, identified as PRV-0849, installed in 1978 and rebuilt in 1990, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (16) One (1) EEMCO 1,000 ton vacuum assisted reinforced plastic molding press, identified as PRV-1026, installed in 1977 and rebuilt in 1990, capacity: 275 pounds of fiberglass reinforced plastic parts per hour.
- (17) One (1) HPM Corporation Injection Molding Press, identified as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (18) One (1) 2,000-ton HPM Corporation injection molding press, identified as PR-2072, installed in 2004, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (19) One (1) 1,000-ton HPM Corporation injection molding press, identified as PR-1073, installed in 2005, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

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

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

D.2.1 PSD Minor Limit [326 IAC 2-2]

- (a) In order to render requirements of 326 IAC 2-2 not applicable, the total VOC emissions from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) and the nineteen (19) SMC presses (PR-0419, PR-0420, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PRV-0849, PRV-1026, PR-1571, PR-2072 and PR-1073), shall be limited to less than a total of 246.1 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The VOC emissions from the SMC machines at the three (3) SMC manufacturing lines shall not exceed 0.0059 pounds of VOC emitted per pound of VOC input.

- (c) The VOC emissions from Resin Storage associated with the three (3) SMC manufacturing lines shall not exceed 0.059 pounds of VOC emitted per ton of SMC produced.

The VOC emissions from the Mixing Station associated with the three (3) SMC manufacturing lines shall not exceed 0.19 pounds of VOC emitted per ton of SMC produced.

The VOC emissions from SMC Holding Area associated with the three (3) SMC manufacturing lines shall not exceed 0.0018 pounds of VOC emitted per ton of SMC produced.
- (d) The VOC emissions from nineteen (19) SMC presses shall not exceed 0.03 pounds of VOC emitted per pound of VOC contained in the SMC.
- (e) The PM and PM₁₀ emissions from SB-A shall be limited to less than 9.87 pounds per hour.
- (f) The PM and PM₁₀ emissions from SB-B shall be limited to less than 21.33 pounds per hour.
- (g) The PM and PM₁₀ emissions from SB-C24 shall be limited to less than 2.16 pounds per hour.
- (h) The PM and PM₁₀ emissions from SB-C32 shall be limited to less than 2.88 pounds per hour.
- (i) The PM and PM₁₀ emissions from Machine 1 shall be limited to less than 8.84 pounds per hour.
- (j) The PM and PM₁₀ emissions from Machine 2 shall be limited to less than 8.84 pounds per hour.
- (k) The PM and PM₁₀ emissions from Machine 3 shall be limited to less than 1.97 pounds per hour.

Compliance with these limits will limit source-wide PM, PM₁₀ and VOC emissions to less than two hundred fifty (250) tons per year and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.2.2 Volatile Organic Compounds [326 IAC 8-1-6]

- (a) Pursuant to CP 003-3105-00059, issued on September 7, 1993, and 326 IAC 8-1-6, Best Available Control Technology (BACT) for the one (1) prime spray booth, identified as SB-A, has been determined to be:
 - (1) The method of application shall be performed with high-volume-low pressure (HVLP) spray applicators;
 - (2) The use of lower VOC paints (less than 3.5 lb VOC per gallon of coating excluding water).
- (b) Pursuant to T 003-5942-00059, issued on March 26, 2002 and 326 IAC 8-1-6, Best Available Control Technology (BACT) for the two (2) spray booths, identified as SB-C24 and SB-C32, has been determined to be:
 - (1) The VOC input delivered to the applicators including cleanup solvents shall be limited to less than a total of sixty-six (66) tons per twelve (12) consecutive month period;
 - (2) The method of application at the spray booths shall be done with electrostatic applicators;

- (3) The use of low (25-40%) and medium (41-50%) solids content coatings, and
- (4) The following management and work practices shall apply:
 - (i) Operator training course.
 - (ii) Spray gun cleaning.
 - (iii) The cleanup solvent containers used to transport solvent from drums to work stations shall be closed containers having soft gasketed closures.
 - (iv) The application equipment operators shall be instructed and trained on the methods and practices utilized to minimize spillage on the floor and over application.
 - (v) Storage containers used to store VOC and/or HAPs containing materials shall be kept covered when not in use.
 - (vi) Cleanup solvents will be reused in the process as much as possible to reduce hazardous waste and the related impact on the environment.

D.2.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating processes (SB-A, SB-B, SB-C24 and SB-C32) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) shall not exceed 23.3 pounds per hour when operating at a total process weight rate of 26,670 pounds per hour.

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

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

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

D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the surface coating processes (SB-A, SB-B, SB-C24 and SB-C32) and their control devices, and the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) and their control devices.

Compliance Determination Requirements

D.2.6 VOC Emissions

Compliance with Condition D.2.1 shall be demonstrated within thirty (30) days of the end of each month. This shall be based on the total volatile organic compound emitted for the previous month, added to the previous 11 months total VOC emitted so as to arrive at VOC emissions for the most recent twelve (12) consecutive month period. The VOC emissions for a month shall be calculated by using the following equation:

$$E = U_{PB} + (V_{SMC} \times 0.0059) + (P_{SMC} \times 0.0001254) + (U_{SMC} \times 0.03)$$

Where:

E = Total VOC emissions (tons)

U_{PB} = Total VOC input to the spray booths (SB-A, SB-B, SB-C24, SB-C32) (tons)

V_{SMC} = Total VOC input to the three (3) SMC Machines (tons)

P_{SMC} = Total SMC produced at the three (3) SMC Machines (tons)

U_{SMC} = Total VOC input to the nineteen (19) SMC presses (tons)

D.2.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Conditions D.2.1 and D.2.2 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.

D.2.8 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Condition D.2.4 the dust collection system for particulate control shall be in operation and control emissions from the three (3) SMC manufacturing lines at all times that any of the three (3) SMC manufacturing lines are in operation.
- (b) In the event that dust collector failure is observed in a multi-compartment dust collector, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.2.9 Monitoring [40 CFR 64, Compliance Assurance Monitoring (CAM)]

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (Stacks B, C, D, E, G, I, J and K) 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 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.
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D.2.10 Visible Emissions Notations [40 CFR 64, Compliance Assurance Monitoring (CAM)]

- (a) Visible emission notations of the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) stack exhaust (Stack SV-01) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.2.11 Dust Collector Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64, Compliance Assurance Monitoring (CAM)]

- (a) The Permittee shall record the pressure drop across the dust collector used in conjunction with three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) at least once per day when any of the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) are in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.2.12 Broken or Failed Dust Collector Detection

- (a) For a single compartment dust collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment dust collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Collector failure can be indicated by a significant drop in the dust collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow

rate, air infiltration, leaks or dust traces.

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

D.2.13 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.1 and D.2.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.2.1 and D.2.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The VOC content of the SMC, 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 cleanup solvent usage for each month;
 - (4) The total VOC usage for each month; and
 - (5) The weight of VOCs emitted for each compliance period.
- (b) To document compliance with Condition D.2.9, the Permittee shall maintain a log of weekly overspray observations, and the daily and monthly inspections.
- (c) To document compliance with Condition D.2.10, the Permittee shall maintain a daily record of visible emission notations of the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) stack exhaust (Stack SV-01). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) To document compliance with Condition D.2.11, the Permittee shall maintain a daily record of the pressure drop across the dust collector controlling the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3). The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.14 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.1(a) and D.2.2(b)(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).

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (a) One (1) hook oven, identified as BO-PH, installed in 1991, exhausted to stack Q, rated at 0.4 million British thermal units per hour, capacity: 10 pounds of waste per hour. [326 IAC 4-2-2]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (c) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone. [326 IAC 6-3-2]
- (d) Drilling, Trimming, Sanding of Fiberglass Reinforced Plastic Parts. [326 IAC 6-3-2]

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

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

D.3.1 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2-2, the one (1) hook oven, known as BO-PH, which serves as an incinerator, shall:

- (a) Consist of primary and secondary chambers or the equivalent;
- (b) Be equipped with a primary burner unless burning wood products;
- (c) Comply with 326 IAC 5-1 (Opacity limitations) and 326 IAC 2 (Permit Review Rules);
- (d) Be maintained properly as specified by the manufacturer and approved by IDEM;
- (e) Be operated according to the manufacturer's recommendation and only burn waste approved by IDEM;
- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;
- (g) Be operated so that emissions of hazardous materials including, but not limited to, viable pathogenic bacteria, dangerous chemical or gases, or noxious odors are prevented;
- (h) Not create a nuisance or a fire hazard; and
- (i) Not emit particulate matter (PM) in excess of 0.5 pounds per 1000 pounds of dry exhaust gas corrected to fifty percent (50%) excess air.

The operation of the incinerator shall be terminated immediately upon noncompliance with any of the above mentioned requirements.

D.3.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the insignificant brazing, cutting, soldering, welding, trimming, drilling, sanding or buffing shall not exceed the allowable particulate emission rate based on the following equation:

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

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

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

SECTION E.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Plastic Parts Surface Coating (40 CFR 63, Subpart PPPP)

- (c) One (1) spray booth, identified as SB-A, equipped with HVLP spray applicators or with equivalent or better spray applicators and dry filters for overspray control, installed in September 1993 and modified in May 2003, exhausted through Stack G, capacity: 13.9 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (d) One (1) spray booth, identified as SB-B, equipped with air atomization spray guns and dry filters for overspray control, installed in June 1973, exhausted through Stacks I, J, and K, capacity: 10 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (e) One (1) spray booth, identified as SB-C24, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks D and E, capacity: 3 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (f) One (1) spray booth, identified as SB-C32, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks B and C, capacity: 4 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.

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

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

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (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 for the surface coating processes (SB-A, SB-B, SB-C24 and SB-C32) as specified in Table 2 of 40 CFR 63, Subpart PPPP in accordance with the schedule in 40 CFR 63 Subpart PPPP.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.1.2 Surface Coating of Plastic Parts and Products Requirements [40 CFR Part 63, Subpart PPPP] [326 IAC 20-81]

Pursuant to CFR Part 63, Subpart PPPP, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products, which are incorporated by reference as 326 IAC 20-81, for the surface coating processes (SB-A, SB-B, SB-C24 and SB-C32) as specified as follows:

§ 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.

(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.

§ 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.

(2) For each existing automotive lamp coating affected source, limit organic HAP emissions to no more than 0.45 kg (0.45 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(3) For each existing TPO coating affected source, limit organic HAP emissions to no more than 0.26 kg (0.26 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

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

(1) If the general use or TPO surface coating operations subject to only one of the emission limits specified in paragraphs (a)(1), (a)(3), (b)(1), or (b)(3) of this section account for 90 percent or more of the surface coating activity at your facility (*i.e.*, it is the predominant activity at your facility), then compliance with that emission limitation for all surface coating operations constitutes compliance with the other applicable emission limitations. You must use kg (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). Additionally, you must determine the facility's predominant activity annually and include the determination in the next semi-annual compliance report required by §63.4520(a).

(2) You may calculate and comply with a facility-specific emission limit as described in paragraphs (c)(2)(i) through (iii) of this section. If you elect to comply using the facility-specific emission limit alternative, then compliance with the facility-specific emission limit and the emission limitations in this subpart for all surface coating operations constitutes compliance with this and other applicable surface coating NESHAP. In calculating a facility-specific emission limit, you must include coating activities that meet the applicability criteria of the other subcategories and constitute more than 1 percent of total coating activities. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation.

(i) You are required to calculate the facility-specific emission limit for your facility when you submit the notification of compliance status required in §63.4510(c), and on a monthly basis afterward using the coating data for the relevant 12-month compliance period.

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

$$\text{Facility - Specific Emission Limit} = \frac{\sum_{i=1}^n (\text{Limit}_i)(\text{Solids}_i)}{\sum_{i=1}^n (\text{Solids}_i)} \quad (\text{Eq. 1})$$

Where:

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

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

Solids_i = The kg (lb) of solids used in coating operation, i, in the 12-month compliance period that is subject to emission limit, i. You may estimate the 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 use of parameters other than coating consumption and mass solids content must be approved by the Administrator.

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

(iii) If you need to convert an emission limit in another surface coating NESHAP from kg (lb) organic HAP per liter (gallon) coating solids used to kg (lb) organic HAP per kg (lb) coating solids used, you must use the default solids density of 1.50 kg solids per liter coating solids (12.5 lb solids per gal solids).

§ 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.

(b) *Emission rate without add-on controls option.* Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, calculated as a rolling 12-month emission rate and determined on a monthly basis. You must meet all the requirements of §§63.4550, 63.4551, and 63.4552 to demonstrate compliance with the 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).

§ 63.4501 What parts of the General Provisions apply to me?

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

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.

(ii) For the emission rate without add-on controls option, provide the calculation of the total mass of organic HAP emissions for each month; the calculation of the total mass of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1C, 2, and 3, respectively, of §63.4551.

(10) If you are complying with a single emission limit representing the predominant activity under §63.4490(c)(1), include the calculations and supporting information used to demonstrate that this emission limit represents the predominant activity as specified in §63.4490(c)(1).

(11) If you are complying with a facility-specific emission limit under §63.4490(c)(2), include the calculation of the facility-specific emission limit and any supporting information as specified in §63.4490(c)(2).

§ 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.

(v) If you used the emission rate without add-on controls or the emission rate with add-on controls compliance option (§63.4491(b) or (c)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.

(vi) If you used the predominant activity alternative (§63.4490(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report.

(vii) If you used the facility-specific emission limit alternative (§63.4490(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period.

(4) *No deviations.* If there were no deviations from the emission limitations in §§63.4490, 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.

(6) *Deviations: Emission rate without add-on controls option.* If you used the emission rate without add-on controls option and there was a deviation from the applicable emission limit in §63.4490, the semiannual compliance report must contain the information in paragraphs (a)(6)(i) through (iii) of this section.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.4490.

(ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. You must submit the calculations for Equations 1, 1A through 1C, 2, and 3 of §63.4551; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4). You do not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

(iii) 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.

(3) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of §63.4551 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4); the calculation of the total mass of coating solids used each month using Equation 2 of §63.4551; and the calculation of each 12-month organic HAP emission rate using Equation 3 of §63.4551.

(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.

(g) If you use an allowance in Equation 1 of §63.4551 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.4551(e)(4), you must keep records of the information specified in paragraphs (g)(1) through (3) of this section.

(1) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of §63.4551, a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment.

(2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of §63.4551.

(3) The methodology used in accordance with §63.4551(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.

(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:

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

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.

Compliance Requirements for the Emission Rate Without Add-On Controls Option

§ 63.4550 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 of §63.4551. 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 the end of that month plus the next 12 months. You must determine the mass of organic HAP emissions and mass of coating solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the calculations according to §63.4551 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.4490.

§ 63.4551 How do I demonstrate initial compliance with the emission limitations?

You may use the emission rate without add-on controls 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 compliant material 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 emission rate without add-on controls option, the coating operation or group of coating operations must meet the applicable emission limit in §63.4490, but is not required to meet the operating limits or work practice standards in §§63.4492 and 63.4493, respectively. You must conduct a separate initial compliance demonstration for each general use, TPO, automotive lamp, and assembled on-road vehicle coating operation 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. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which you use the compliant material option or the emission rate with add-on controls

option. You do not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed 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 emission rate without add-on controls option. If you use coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.

(a) *Determine the mass fraction of organic HAP for each material.* Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month according to the requirements in §63.4541(a).

(b) *Determine the mass fraction of coating solids.* Determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during each month according to the requirements in §63.4541(b).

(c) *Determine the density of each material.* Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475–98, “Standard Test Method for Density of Liquid Coatings, Inks, and Related Products” (incorporated by reference, see §63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475–98 and other such information sources, the test results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct. If you purchase materials or monitor consumption by weight instead of volume, you do not need to determine material density. Instead, you may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

(d) *Determine the volume of each material used.* Determine the volume (liters) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If you purchase materials or monitor consumption by weight instead of volume, you do not need to determine the volume of each material used. Instead, you may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

(e) *Calculate the mass of organic HAP emissions.* The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section.

$$H_e = A + B + C - R_w \quad (\text{Eq. 1})$$

Where:

H_e = Total mass of organic HAP emissions during the month, kg.

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

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

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

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

(1) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of this section:

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

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

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

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

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

m = Number of different coatings used during the month.

(2) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section:

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

Where:

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

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

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

W_{t,j} = Mass fraction of organic HAP in thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

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

(3) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of this section:

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

Where:

C = Total mass of organic HAP in the cleaning materials used during the month, kg.

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

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

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

p = Number of different cleaning materials used during the month.

(4) If you choose to account for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of this section, then you must determine the mass according to paragraphs (e)(4)(i) through (iv) of this section.

(i) You may only include waste materials in the determination that are generated by coating operations in the affected source for which you use Equation 1 of this section and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR part 262, 264, 265, or 266. The TSDF may be either off-site or on-site. You may not include organic HAP contained in wastewater.

(ii) You must determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF. Do not include in your determination any waste materials sent to a TSDF during a month if you have already included them in the amount collected and stored during that month or a previous month.

(iii) Determine the total mass of organic HAP contained in the waste materials specified in paragraph (e)(4)(ii) of this section.

(iv) You must document the methodology you use to determine the amount of waste materials and the total mass of organic HAP they contain, as required in §63.4530(g). If waste manifests include this information, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them.

(f) Calculate the total mass of coating solids used. Determine the total mass of coating solids used, kg, which is the combined mass of coating solids for all the coatings used during each month, using Equation 2 of this section:

$$M_{st} = \sum_{i=1}^m (\text{Vol}_{c,i}) (D_{c,i}) (M_{s,i}) \quad (\text{Eq. 2})$$

Where:

M_{st} = Total mass of coating solids used during the month, kg.

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

D_{c,i} = Density of coating, i, kgs per liter coating, determined according to §63.4551(c).

M_{s,i} = Mass fraction of coating solids for coating, i, kgs solids per kg coating, determined according to §63.4541(b).

m = Number of coatings used during the month.

(g) Calculate the organic HAP emission rate. Calculate the organic HAP emission rate for the compliance

period, kg (lb) organic HAP emitted per kg (lb) coating solids used, using Equation 3 of this section:

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n M_{st}} \quad (\text{Eq. 3})$$

Where:

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

H_e = Total mass of organic HAP emissions from all materials used during month, y, kg, as calculated by Equation 1 of this section.

M_{st} = Total mass of coating solids used during month, y, kg, as calculated by Equation 2 of this section.

y = Identifier for months.

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

(h) *Compliance demonstration.* The organic HAP emission rate for the initial compliance period calculated using Equation 3 of this section must be less than or equal to the applicable emission limit for each subcategory in §63.4490 or the predominant activity or facility-specific emission limit allowed in §63.4490(c). You must keep all records as required by §§63.4530 and 63.4531. As part of the notification of compliance status required by §63.4510, you must identify the coating operation(s) for which you used the emission rate without add-on controls option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in §63.4490, determined according to the procedures in this section.

§ 63.4552 How do I demonstrate continuous compliance with the emission limitations?

(a) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to §63.4551(a) through (g), must be less than or equal to the applicable emission limit in §63.4490. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.4550 is the end of a compliance period consisting of that month and the preceding 11 months. You must perform the calculations in §63.4551(a) through (g) on a monthly basis using data from the previous 12 months of operation. If you are complying with a facility-specific emission limit under §63.4490(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 the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.4490, this is a deviation from the emission limitation for that compliance period and must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(6).

(c) As part of each semiannual compliance report required by §63.4520, you must identify the coating operation(s) for which you used the emission rate without add-on controls option. If there were no deviations from the emission limitations, you must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.4490, determined according to §63.4551(a) through (g).

(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 2 to Subpart PPPP of Part 63 - Applicability of General Provisions to Subpart PPPP of Part 63

You must comply with the applicable General Provisions requirements according to the following table:

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|-------------------|-------------------------------------|----------------------------|--|
| § 63.1(a)(1)-(14) | General Applicability | Yes | |
| § 63.1(b)(1)-(3) | Initial Applicability Determination | Yes | Applicability to subpart PPPP is also specified in §63.4481. |
| § 63.1(c)(1) | Applicability After | Yes | |

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|------------------|---|----------------------------|--|
| | Standard Established | | |
| § 63.1(c)(2)-(3) | Applicability of Permit Program for Area Sources | No | Area sources are not subject to subpart PPPP. |
| § 63.1(c)(4)-(5) | Extensions and Notifications | Yes | |
| § 63.1(e) | Applicability of Permit Program Before Relevant Standard is Set | Yes | |
| § 63.2 | Definitions | Yes | Additional definitions are specified in § 63.4581. |
| § 63.3(a)-(c) | Units and Abbreviations | Yes | |
| § 63.4(a)(1)-(5) | Prohibited Activities | Yes | |
| § 63.4(b)-(c) | Circumvention/Severability | Yes | |
| § 63.5(a) | Construction/Reconstruction. | Yes | |
| § 63.5(b)(1)-(6) | Requirements for Existing, Newly Constructed, and Reconstructed Sources | Yes | |
| § 63.5(d) | Application for Approval of Construction/Reconstruction | Yes | |
| § 63.5(e) | Approval of Construction/Reconstruction | Yes | |
| § 63.5(f) | Approval of Construction/Reconstruction Based on Prior State Review | Yes | |
| § 63.6(a) | Compliance With Standards and Maintenance Requirements-Applicability | Yes | |
| § 63.6(b)(1)-(7) | Compliance Dates for New and Reconstructed Sources | Yes | Section 63.4483 specifies the compliance dates. |
| § 63.6(c)(1)-(5) | Compliance Dates for Existing Sources | Yes | Section 63.4483 specifies the compliance dates. |
| § 63.6(e)(1)-(2) | Operation and Maintenance | Yes | |
| § 63.6(e)(3) | Startup, Shutdown, and | Yes | Only sources using an |

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|-------------------|---|----------------------------|--|
| | Malfunction Plan | | add-on control device to comply with the standard must complete startup, shutdown, and malfunction plans. |
| § 63.6(f)(1) | Compliance Except During Startup, Shutdown, and Malfunction | Yes | Applies only to sources using an add-on control device to comply with the standard. |
| § 63.6(f)(2)-(3). | Methods for Determining Compliance | Yes | |
| § 63.6(g)(1)-(3) | Use of an Alternative Standard. | Yes. | |
| § 63.6(h) | Compliance With Opacity/Visible Emission Standards | No | Subpart PPPP does not establish opacity standards and does not require continuous opacity (COMS). |
| § 63.6(i)(1)-(16) | Extension of Compliance | Yes | |
| § 63.6(j). | Presidential Compliance Exemption | Yes | |
| § 63.7(a)(1) | Performance Test Requirements-Applicability | Yes | Applies to all affected sources. Additional requirements for performance testing are specified in §§ 63.4564, 63.4565, and 63.4566. |
| § 63.7(a)(2) | Performance Test Requirements-Dates | Yes | Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standards. Section 63.4560 specifies the schedule for performance test requirements that are earlier than those specified in §63.7(a)(2). |
| § 63.7(a)(3) | Performance Tests Required By the Administrator | Yes | |

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|------------------|--|----------------------------|---|
| § 63.7(b)-(e) | Performance Test Requirements-Notification, Quality Assurance, Facilities Necessary for Safe Testing, Conditions During Test | Yes | Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standards. |
| § 63.7(f) | Performance Test Requirements-Use Alternative Test Method. Efficiency | Yes | Applies to all test methods except those of used to determine capture system |
| § 63.7(g)-(h) | Performance Test Requirements-Data Analysis, Recordkeeping, Reporting, Waiver of Test | Yes | Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standards. |
| § 63.8(a)(1)-(3) | Monitoring Requirements-Applicability | Yes | Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standards. Additional requirements for monitoring are specified in § 63.4568. |
| § 63.8(a)(4) | Additional Monitoring Requirements | No | Subpart PPPP does not have monitoring requirements for flares. |
| § 63.8(b) | Conduct of Monitoring. | Yes | |
| § 63.8(c)(1)-(3) | Continuous Monitoring Systems (CMS) Operation and Maintenance | Yes | Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for CMS operations and maintenance are specified in §63.4568. |

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|------------------|--|----------------------------|--|
| § 63.8(c)(4) | CMS | No | Section 63.4568 specifies the requirements for the operation of CMS for capture systems and add-on control devices at sources using these to comply. |
| § 63.8(c)(5) | COMS | No | Subpart PPPP does not have opacity or visible emission standards. |
| § 63.8(c)(6). | CMS Requirements | No | Section 63.4568 specifies the requirements for monitoring systems for capture systems and add-on control devices at sources using these to comply. |
| § 63.8(c)(7) | CMS Out-of-Control Periods | Yes | |
| § 63.8(c)(8) | CMS Out-of-Control Periods and Reporting | No | Section 63.4520 requires reporting of CMS out-of-control periods. |
| § 63.8(d)-(e) | Quality Control Program and CMS Performance Evaluation | No | Subpart PPPP does not require the use of continuous emissions monitoring systems. |
| § 63.8(f)(1)-(5) | Use of an Alternative Monitoring Method | Yes | |
| § 63.8(f)(6). | Alternative to Relative Accuracy Test | No | Subpart PPPP does not require the use of continuous emissions monitoring systems. |
| § 63.8(g)(1)-(5) | Data Reduction | No | Sections 63.4567 and 63.4568 specify monitoring data reduction. |
| § 63.9(a)-(d). | Notification Requirements | Yes | |
| § 63.9(e). | Notification of Performance Test | Yes | Applies only to capture system and add-on control device performance tests at sources using these to comply with the standards. |
| § 63.9(f) | Notification of Visible Emissions/ Opacity Test | No | Subpart PPPP does not have opacity or visible emission standards. |
| § 63.9(g)(1)-(3) | Additional Notifications When Using CMS | No | Subpart PPPP does not require the use of continuous emissions monitoring systems. |

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|-------------------------|--|-----------------------------------|---|
| § 63.9(h) | Notification of Compliance Status | Yes | Section 63.4510 specifies the dates for submitting the notification of compliance status. |
| § 63.9(i) | Adjustment of Submittal Deadlines | Yes | |
| § 63.9(j) | Change in Previous Information | Yes | |
| § 63.10(a) | Recordkeeping/Reporting-Applicability and General Information | Yes | |
| § 63.10(b)(1). | General Recordkeeping Requirements | Yes | Additional requirements are specified in §§ 63.4530 and 63.4531. |
| § 63.10(b)(2) (i)-(v) | Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS | Yes | Requirements for startup, shutdown, and malfunction records only apply to add-on control devices used to comply with the standards. |
| § 63.10(b)(2) (vi)-(xi) | | Yes | |
| § 63.10(b)(2) (xii) | Records | Yes | |
| § 63.10(b)(2) (xiii) | | No | Subpart PPPP does not require the use of continuous emissions monitoring systems. |
| § 63.10(b)(2) (xiv) | | Yes | |
| § 63.10(b)(3) | Recordkeeping Requirements for Applicability Determinations | Yes | |
| § 63.10(c)(1)-(6) | Additional Recordkeeping Requirements for Sources with CMS | Yes | |
| § 63.10(c)(7)-(8) | | No | The same records are required in §63.4520(a)(7). |
| § 63.10(c)(9)-(15) | | Yes | |
| § 63.10(d)(1) | General Reporting Requirements | Yes | Additional requirements are specified in §63.4520. |
| § 63.10(d)(2) | Report of Performance Test Results | Yes | Additional requirements are specified in §63.4520(b). |
| § 63.10(d)(3) | Reporting Opacity or Visible Emissions Observations | No | Subpart PPPP does not require opacity or visible emissions observations. |

| Citation | Subject | Applicable to Subpart PPPP | Explanation |
|-------------------|---|----------------------------|---|
| § 63.10(d)(4). | Progress Reports for Sources With Compliance Extensions | Yes | |
| § 63.10(d)(5) | Startup, Shutdown, and Malfunction Reports | Yes | Applies only to add-on control devices at sources using these to comply with the standards. |
| § 63.10(e)(1)-(2) | Additional CMS Reports | No | Subpart PPPP does not require the use of continuous emissions monitoring systems. |
| § 63.10(e)(3) | Excess Emissions/CMS Performance Reports | No | Section 63.4520(b) specifies the contents of periodic compliance reports. |
| § 63.10(e)(4) | COMS Data Reports | No | Subpart PPPP does not specify requirements for opacity or COMS. |
| § 63.10(f). | Recordkeeping/Reporting Waiver | Yes | |
| § 63.11 | Control Device Requirements/Flares | No | Subpart PPPP does not specify use of flares for compliance. |
| § 63.12 | State Authority and Delegations | Yes | |
| § 63.13 | Addresses | Yes | |
| § 63.14 | Incorporation by Reference | Yes | |
| § 63.15 | Availability of Information/Confidentiality | Yes | |

Table 3 to Subpart 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

$(V) = [(Total\ weight\ loss)/(Initial\ specimen\ weight)] \times 100 = [(L)/(S)] \times 100$

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:

V_i = 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).

E.1.3 One Time Deadlines Relating to Surface Coating of Plastic Parts and Products [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) | April 19, 2005 |
| Compliance Date | 40 CFR 63.4483(b) | April 19, 2007 |
| Conduct Initial Compliance Demonstration | 40 CFR 63.4540 40 CFR 63.4550 | 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 E.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Reinforced Plastic Composites Production (40 CFR 63 Subpart WWWW)

- (g) Two (2) SMC manufacturing lines, identified as Machine 1 and Machine 2, reconstructed and relocated in 2003, with a capacity of 12,000 pounds of SMC per hour, each, and one (1) SMC manufacturing line, identified as Machine 3, installed in 2004, with a capacity of 2,670 pounds of SMC per hour, consisting of the following. Under 40 CFR 63 (NESHAP), Subpart WWWW, this is considered a sheet molding compound (SMC) manufacturing operation:
- (1) eighteen (18) resin storage tanks, with storage capacities between 2,000 and 6,300 gallons, each,
 - (2) one (1) small add material handling area,
 - (3) one (1) SMC mix room, consisting of four (4) mixing tanks, seven (7) holding tanks, and six (6) dynamic mixers,
 - (4) three (3) SMC manufacturing operations,
 - (5) one (1) SMC maturation area,
 - (6) two (2) calcium carbonate silos, storing 270,000 pounds, and
 - (7) one (1) dust collection system, exhausted through Stack SV-01.
- (h) Nineteen (19) injection or compression molding SMC presses. Under 40 CFR 63 (NESHAP), Subpart WWWW, each of the presses is considered a sheet molding compound (SMC) closed molding operation:
- (1) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0419, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (2) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0420, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (3) One (1) Erie 600 ton reinforced plastic molding press, identified as PR-0618, installed in 1968 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (4) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1222, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
 - (5) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1223, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
 - (6) One (1) W-W-M 1200 ton reinforced plastic molding press, identified as PRV-1250, installed in 1978 and rebuilt in 1985, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
 - (7) One (1) Erie 1500 ton vacuum assisted reinforced plastic molding press, identified as PRV-1558, installed in 1977, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
 - (8) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2024, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.

Facility Description [326 IAC 2-7-5(15)]: Reinforced Plastic Composites Production (40 CFR 63 Subpart WWWW) (continued)

- (9) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2025, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (10) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2059, installed in 1984, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (11) One (1) 2500 ton reinforced plastic molding press, identified as PR-2566, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2572.
- (12) One (1) 2500 ton reinforced plastic molding press, identified as PR-2567, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2573.
- (13) One (1) W-W-M 4400 ton vacuum assisted reinforced plastic molding press, identified as PRV-4470, installed in 1995, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (14) One (1) French 600 ton vacuum assisted reinforced plastic molding press, identified as PRV-0648, installed in 1978 and rebuilt in 1990, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (15) One (1) French 800 ton vacuum assisted reinforced plastic molding press, identified as PRV-0849, installed in 1978 and rebuilt in 1990, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (16) One (1) EEMCO 1,000 ton vacuum assisted reinforced plastic molding press, identified as PRV-1026, installed in 1977 and rebuilt in 1990, capacity: 275 pounds of fiberglass reinforced plastic parts per hour.
- (17) One (1) HPM Corporation Injection Molding Press, identified as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (18) One (1) 2,000-ton HPM Corporation injection molding press, identified as PR-2072, installed in 2004, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (19) One (1) 1,000-ton HPM Corporation injection molding press, identified as PR-1073, installed in 2005, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

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

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

E.2.1 General Provisions Relating to NESHAP WWWW [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.5925, 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 15 of 40 CFR Part 63, Subpart WWWW in accordance with the schedule in 40 CFR 63 Subpart WWWW.

E.2.2 NESHAP WWWW Requirements [326 IAC 20-56] [40 CFR Part 63, Subpart WWWW]

Pursuant to CFR Part 63, Subpart WWWW, the Permittee shall comply with the provisions of 40 CFR Part 63.5780, as published in 70 FR 50124, August 25, 2005, with an effective date of October 24, 2005, for the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3), the nineteen

(19) SMC presses (PR-0419, PR-0420, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PRV-0849, PRV-1026, PR-1571, PR-2072 and PR-1073), and equipment cleaning, cleaning of materials used in reinforced plastic composites manufacture, mixing, and HAP-containing material storage, with a compliance date of April 21, 2006, as specified as follows:

What This Subpart Covers

§ 63.5780 What is the purpose of this subpart?

This subpart establishes national emissions standards for hazardous air pollutants (NESHAP) for reinforced plastic composites production. This subpart also establishes requirements to demonstrate initial and continuous compliance with the hazardous air pollutants (HAP) emissions standards.

§ 63.5785 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a reinforced plastic composites production facility that is located at a major source of HAP emissions. Reinforced plastic composites production is limited to operations in which reinforced and/or nonreinforced plastic composites or plastic molding compounds are manufactured using thermoset resins and/or gel coats that contain styrene to produce plastic composites. The resins and gel coats may also contain materials designed to enhance the chemical, physical, and/or thermal properties of the product. Reinforced plastic composites production also includes cleaning, mixing, HAP-containing materials storage, and repair operations associated with the production of plastic composites.

§ 63.5790 What parts of my plant does this subpart cover?

(a) This subpart applies to each new or existing affected source at reinforced plastic composites production facilities.

(b) The affected source consists of all parts of your facility engaged in the following operations: Open molding, closed molding, centrifugal casting, continuous lamination, continuous casting, polymer casting, pultrusion, sheet molding compound (SMC) manufacturing, bulk molding compound (BMC) manufacturing, mixing, cleaning of equipment used in reinforced plastic composites manufacture, HAP-containing materials storage, and repair operations on parts you also manufacture.

(c) The following operations are specifically excluded from any requirements in this subpart: application of mold sealing and release agents; mold stripping and cleaning; repair of parts that you did not manufacture, including non-routine manufacturing of parts; personal activities that are not part of the manufacturing operations (such as hobby shops on military bases); prepreg materials as defined in §63.5935; non-gel coat surface coatings; application of putties, polyputties, and adhesives; repair or production materials that do not contain resin or gel coat; research and development operations as defined in section 112(c)(7) of the CAA; polymer casting; and closed molding operations (except for compression/injection molding). Note that the exclusion of certain operations from any requirements applies only to operations specifically listed in this paragraph. The requirements for any co-located operations still apply.

§ 63.5795 How do I know if my reinforced plastic composites production facility is a new affected source or an existing affected source?

(a) A reinforced plastic composites production facility is a new affected source if it meets all the criteria in paragraphs (a)(1) and (2) of this section.

(1) You commence construction of the source after August 2, 2001.

(2) You commence construction, and no other reinforced plastic composites production source exists at that site.

(b) For the purposes of this subpart, an existing affected source is any affected source that is not a new affected source.

§ 63.5797 How do I determine the organic HAP content of my resins and gel coats?

In order to determine the organic HAP content of resins and gel coats, you may rely on information provided by the material manufacturer, such as manufacturer's formulation data and material safety data sheets (MSDS), using the procedures specified in paragraphs (a) through (c) of this section, as applicable.

(a) Include in the organic HAP total each organic HAP that is present at 0.1 percent by mass or more for Occupational Safety and Health Administration-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other organic HAP compounds.

(b) If the organic HAP content is provided by the material supplier or manufacturer as a range, you must use the upper limit of the range for determining compliance. If a separate measurement of the total organic HAP content, such as an analysis of the material by EPA Method 311 of appendix A to 40 CFR part 63, exceeds the upper limit of the range of the total organic HAP content provided by the material supplier or manufacturer, then you must use the measured organic HAP content to determine compliance.

(c) If the organic HAP content is provided as a single value, you may use that value to determine compliance. If a separate measurement of the total organic HAP content is made and is less than 2 percentage points higher than the value for total organic HAP content provided by the material supplier or manufacturer, then you still may use the provided value to demonstrate compliance. If the measured total organic HAP content exceeds the provided value by 2 percentage points or more, then you must use the measured organic HAP content to determine compliance.

Compliance Dates and Standards

§ 63.5800 When do I have to comply with this subpart?

You must comply with the standards in this subpart by the dates specified in Table 2 to this subpart. Facilities meeting a organic HAP emissions standard based on a 12-month rolling average must begin collecting data on the compliance date in order to demonstrate compliance.

§ 63.5805 What standards must I meet to comply with this subpart?

You must meet the requirements of paragraphs (a) through (h) of this section that apply to you. You may elect to comply using any options to meet the standards described in §§63.5810 through 63.5830. Use the procedures in §63.5799 to determine if you meet or exceed the 100 tpy threshold.

(a) If you have an existing facility that has any centrifugal casting or continuous casting/lamination operations, you must meet the requirements of paragraph (a)(1) or (2) of this section:

(1) If the combination of all centrifugal casting and continuous lamination/casting operations emit 100 tpy or more of HAP, you must reduce the total organic HAP emissions from centrifugal casting and continuous lamination/casting operations by at least 95 percent by weight. As an alternative to meeting the 95 percent by weight requirement, centrifugal casting operations may meet the applicable organic HAP emissions limits in Table 5 to this subpart and continuous lamination/casting operations may meet an organic HAP emissions limit of 1.47 lbs/ton of neat resin plus and neat gel coat plus applied. For centrifugal casting, the percent reduction requirement does not apply to organic HAP emissions that occur during resin application onto an open centrifugal casting mold using open molding application techniques.

(2) If the combination of all centrifugal casting and continuous lamination/casting operations emit less than 100 tpy of HAP, then centrifugal casting and continuous lamination/casting operations must meet the appropriate requirements in Table 3 to this subpart.

(b) All operations at existing facilities not listed in paragraph (a) of this section must meet the organic HAP emissions limits in Table 3 to this subpart and the work practice standards in Table 4 to this subpart that apply, regardless of the quantity of HAP emitted.

(g) If you have repair operations subject to this subpart as defined in §63.5785, these repair operations must meet the requirements in Tables 3 and 4 to this subpart and are not required to meet the 95 percent organic HAP emissions reduction requirements in paragraph (a)(1) or (d) of this section.

General Compliance Requirements

§ 63.5835 What are my general requirements for complying with this subpart?

(a) You must be in compliance at all times with the work practice standards in Table 4 to this subpart, as well as the organic HAP emissions limits in Tables 3, or 5, or the organic HAP content limits in Table 7 to this subpart, as applicable, that you are meeting without the use of add-on controls.

(c) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

Testing and Initial Compliance Requirements

§ 63.5840 By what date must I conduct a performance test or other initial compliance demonstration?

You must conduct performance tests, performance evaluations, design evaluations, capture efficiency testing, and other initial compliance demonstrations by the compliance date specified in Table 2 to this subpart, with three exceptions. Open molding and centrifugal casting operations that elect to meet a organic HAP emissions limit on a 12-month rolling average must initiate collection of the required data on the compliance date, and demonstrate compliance 1 year after the compliance date. New sources that use add-on controls to initially meet compliance must demonstrate compliance within 180 days after their compliance date.

§ 63.5860 How do I demonstrate initial compliance with the standards?

(a) You demonstrate initial compliance with each organic HAP emissions standard in paragraphs (a) through (h) of §63.5805 that applies to you by using the procedures shown in Tables 8 and 9 to this subpart.

Continuous Compliance Requirements

§ 63.5900 How do I demonstrate continuous compliance with the standards?

(a) You must demonstrate continuous compliance with each standard in §63.5805 that applies to you according to the methods specified in paragraphs (a)(1) through (3) of this section.

(4) Compliance with the work practice standards in Table 4 to this subpart is demonstrated by performing the work practice required for your operation.

(b) You must report each deviation from each standard in §63.5805 that applies to you. The deviations must be reported according to the requirements in §63.5910.

(c) Except as provided in paragraph (d) of this section, during periods of startup, shutdown or malfunction, you must meet the organic HAP emissions limits and work practice standards that apply to you.

Notifications, Reports, and Records

§ 63.5905 What notifications must I submit and when?

(a) You must submit all of the notifications in Table 13 to this subpart that apply to you by the dates specified in Table 13 to this subpart. The notifications are described more fully in 40 CFR part 63, subpart A, referenced in Table 13 to this subpart.

(b) If you change any information submitted in any notification, you must submit the changes in writing to the Administrator within 15 calendar days after the change.

§ 63.5910 What reports must I submit and when?

(a) You must submit each report in Table 14 to this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date specified in Table 14 to this subpart and according to paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.5800 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.5800.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.5800.

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

(4) Each subsequent 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.

(5) For each affected source that is subject to permitting requirements pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to §70.6 (a)(3)(iii)(A) or §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 dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information in paragraphs (c)(1) through (6) of this section:

(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.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there are no deviations from any organic HAP emissions limitations (emissions limit and operating limit) that apply to you, and there are no deviations from the requirements for work practice standards in Table 4 to this subpart, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period.

(d) For each deviation from a organic HAP emissions limitation (*i.e.*, emissions limit and operating limit) and for each deviation from the requirements for work practice standards that occurs at an affected source where you are not using a CMS to comply with the organic HAP emissions limitations or work practice standards in this subpart, the compliance report must contain the information in paragraphs (c)(1) through (4) of this section and in paragraphs (d)(1) and (2) of this section. This includes periods of startup, shutdown, and malfunction.

(1) The total operating time of each affected source during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(g) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 14 to this subpart along with, or as part of, the semiannual monitoring report required by §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any organic HAP emissions limitation (including any operating limit) or work practice requirement in this subpart, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

(h) Submit compliance reports and startup, shutdown, and malfunction reports based on the requirements in Table 14 to this subpart, and not based on the requirements in §63.999.

(i) Where multiple compliance options are available, you must state in your next compliance report if you have changed compliance options since your last compliance report.

§ 63.5915 What records must I keep?

(a) You must keep the records listed in paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

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

(3) Records of performance tests, design, and performance evaluations as required in §63.10(b)(2).

(d) You must keep a certified statement that you are in compliance with the work practice requirements in Table 4 to this subpart, as applicable.

§ 63.5920 In what form and how long must I keep my records?

(a) You must maintain all applicable records in such a manner that they can be readily accessed and are suitable for inspection according to §63.10(b)(1).

(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 onsite 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 can keep the records offsite for the remaining 3 years.

(d) You may keep records in hard copy or computer readable form including, but not limited to, paper, microfilm, computer floppy disk, magnetic tape, or microfiche.

Other Requirements and Information

§ 63.5925 What parts of the General Provisions apply to me?

Table 15 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.5930 Who implements and enforces this subpart?

(a) This subpart can be administered by us, the EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to administer and enforce this subpart. You should contact your EPA Regional Office to find out if 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 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are not delegated.

(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 organic HAP emissions standards in §63.5805 under §63.6(g).

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

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

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

§ 63.5935 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:

Atomized mechanical application means application of resin or gel coat with spray equipment that separates the liquid into a fine mist. This fine mist may be created by forcing the liquid under high pressure through an elliptical orifice, bombarding a liquid stream with directed air jets, or a combination of these techniques.

Bulk molding compound (BMC) means a putty-like molding compound containing resin(s) in a form that is ready to mold. In addition to resins, BMC may contain catalysts, fillers, and reinforcements. Bulk molding compound can be used in compression molding and injection molding operations to manufacture reinforced plastic composites products.

BMC manufacturing means a process that involves the preparation of BMC.

Centrifugal casting means a process for fabricating cylindrical composites, such as pipes, in which composite materials are positioned inside a rotating hollow mandrel and held in place by centrifugal forces until the part is sufficiently cured to maintain its physical shape.

Charge means the amount of SMC or BMC that is placed into a compression or injection mold necessary to complete one mold cycle.

Cleaning means removal of composite materials, such as cured and uncured resin from equipment, finished surfaces, floors, hands of employees, or any other surfaces.

Clear production gel coat means an unpigmented, quick-setting resin used to improve the surface appearance and/or performance of composites. It can be used to form the surface layer of any composites other than those used for molds in tooling operations.

Closed molding means a grouping of processes for fabricating composites in a way that HAP-containing materials are not exposed to the atmosphere except during the material loading stage (e.g., compression molding, injection molding, and resin transfer molding). Processes where the mold is covered with plastic (or equivalent material) prior to resin application, and the resin is injected into the covered mold are also considered closed molding.

Composite means a shaped and cured part produced by using composite materials.

Composite materials means the raw materials used to make composites. The raw materials include styrene containing resins. They may also include gel coat, monomer, catalyst, pigment, filler, and reinforcement.

Compression molding means a closed molding process for fabricating composites in which composite materials are placed inside matched dies that are used to cure the materials under heat and pressure without exposure to the atmosphere. The addition of mold paste or in-mold coating is considered part of the closed molding process. The composite materials used in this process are generally SMC or BMC.

Compression/injection molding means a grouping of processes that involves the use of compression molding and/or injection molding.

Continuous casting means a continuous process for fabricating composites in which composite materials are placed on an in-line conveyor belt to produce cast sheets that are cured in an oven.

Continuous lamination means a continuous process for fabricating composites in which composite materials are typically sandwiched between plastic films, pulled through compaction rollers, and cured in an oven. This process is generally used to produce flat or corrugated products on an in-line conveyor.

Continuous lamination/casting means a grouping of processes that involves the use of continuous lamination and/or continuous casting.

Controlled emissions means those organic HAP emissions that are vented from a control device to the atmosphere.

Corrosion-resistant gel coat means a gel coat used on a product made with a corrosion-resistant resin that has a corrosion-resistant end-use application.

Corrosion-resistant end-use applications means applications where the product is manufactured specifically for an application that requires a level of chemical inertness or resistance to chemical attack above that required for typical reinforced plastic composites products. These applications include, but are not limited to, chemical processing and storage; pulp and paper production; sewer and wastewater treatment; power generation; potable water transfer and storage; food and drug processing; pollution or odor control; metals production and plating; semiconductor manufacturing; petroleum production, refining, and storage; mining; textile production; nuclear materials storage; swimming pools; and cosmetic production, as well as end-use applications that require high strength resins.

Corrosion-resistant industry standard includes the following standards: ASME RTP-1 or Sect. X; ASTM D5364, D3299, D4097, D2996, D2997, D3262, D3517, D3754, D3840, D4024, D4160, D4161, D4162, D4184, D3982, or D3839; ANSI/AWWA C950; UL 215, 1316 or 1746, IAPMO PS-199, or written customer requirements for resistance to specified chemical environments.

Corrosion-resistant product means a product made with a corrosion-resistant resin and is manufactured to a corrosion-resistant industry standard, or a food contact industry standard, or is manufactured for corrosion-resistant end-use applications involving continuous or temporary chemical exposures.

Corrosion-resistant resin means a resin that either:

(1) Displays substantial retention of mechanical properties when undergoing ASTM C-581 coupon testing, where the resin is exposed for 6 months or more to one of the following materials: Material with a pH \geq 12.0 or \leq 3.0, oxidizing or reducing agents, organic solvents, or fuels or additives as defined in 40 CFR 79.2. In the coupon testing, the exposed resin needs to demonstrate a minimum of 50 percent retention of the relevant mechanical property compared to the same resin in unexposed condition. In addition, the exposed resin needs to demonstrate an increased retention of the relevant mechanical property of at least 20 percentage points when compared to a similarly exposed general-purpose resin. For example, if the general-purpose resin retains 45 percent of the relevant property when tested as specified above, then a corrosion-resistant resin needs to retain at least 65 percent (45 percent plus 20 percent) of its property. The general-purpose resin used in the test needs to have an average molecular weight of greater than 1,000, be formulated with a 1:2 ratio of maleic anhydride to phthalic anhydride and 100 percent diethylene glycol, and a styrene content between 43 to 48 percent; or

(2) Complies with industry standards that require specific exposure testing to corrosive media, such as UL 1316, UL 1746, or ASTM F-1216.

Doctor box means the box or trough on an SMC machine into which the liquid resin paste is delivered before it is metered onto the carrier film.

Filament application means an open molding process for fabricating composites in which reinforcements are fed through a resin bath and wound onto a rotating mandrel. The materials on the mandrel may be rolled out or worked by using nonmechanical tools prior to curing. Resin application to the reinforcement on the mandrel by means other than the resin bath, such as spray guns, pressure-fed rollers, flow coaters, or brushes is not considered filament application.

Filled Resin means that fillers have been added to a resin such that the amount of inert substances is at least 10 percent by weight of the total resin plus filler mixture. Filler putty made from a resin is considered a filled resin.

Fillers means inert substances dispersed throughout a resin, such as calcium carbonate, alumina trihydrate, hydrous aluminum silicate, mica, feldspar, wollastonite, silica, and talc. Materials that are not considered to be fillers are glass fibers or any type of reinforcement and microspheres.

Fire retardant gel coat means a gel coat used for products for which low-flame spread/low-smoke resin is used.

Fluid impingement technology means a spray gun that produces an expanding non-misting curtain of liquid by the impingement of low-pressure uninterrupted liquid streams.

Food contact industry standard means a standard related to food contact application contained in Food and Drug Administration's regulations at 21 CFR 177.2420.

Gel Coat means a quick-setting resin used to improve surface appearance and/or performance of composites. It can be used to form the surface layer of any composites other than those used for molds in tooling operations.

Gel coat application means a process where either clear production, pigmented production, white/off-white or tooling gel coat is applied.

HAP-containing materials storage means an ancillary process which involves keeping HAP-containing materials, such as resins, gel coats, catalysts, monomers, and cleaners, in containers or bulk storage tanks for any length of time. Containers may include small tanks, totes, vessels, and buckets.

High Performance gel coat means a gel coat used on products for which National Sanitation Foundation, United States Department of Agriculture, ASTM, durability, or other property testing is required.

High strength gel coat means a gel coat applied to a product that requires high strength resin.

High strength resins means polyester resins which have a casting tensile strength of 10,000 pounds per square inch or more and which are used for manufacturing products that have high strength requirements such as structural members and utility poles.

Injection molding means a closed molding process for fabricating composites in which composite materials are injected under pressure into a heated mold cavity that represents the exact shape of the product. The composite materials are cured in the heated mold cavity.

Low Flame Spread/Low Smoke Products means products that meet the following requirements. The products must meet both the applicable flame spread requirements and the applicable smoke requirements. Interior or exterior building application products must meet an ASTM E-84 Flame Spread Index of less than or equal to 25, and Smoke Developed Index of less than or equal to 450, or pass National Fire Protection Association 286 Room Corner Burn Test with no flash over and total smoke released not exceeding 1000 meters square. Mass transit application products must meet an ASTM E-162 Flame Spread Index of less than or equal to 35 and ASTM E662 Smoke Density Ds @ 1.5 minutes less than or equal to 100 and Ds @ 4 minutes less than or equal to 200. Duct application products must meet ASTM E084 Flame Spread Index less than or equal to 25 and Smoke Developed Index less than or equal to 50 on the interior and/or exterior of the duct.

Manual resin application means an open molding process for fabricating composites in which composite materials are applied to the mold by pouring or by using hands and nonmechanical tools, such as brushes and rollers. Materials are rolled out or worked by using nonmechanical tools prior to curing. The use of pressure-fed rollers and flow coaters to apply resin is not considered manual resin application.

Mechanical resin application means an open molding process for fabricating composites in which composite materials (except gel coat) are applied to the mold by using mechanical tools such as spray guns, pressure-fed rollers, and flow coaters. Materials are rolled out or worked by using nonmechanical tools prior to curing.

Mixing means the blending or agitation of any HAP-containing materials in vessels that are 5.00 gallons (18.9 liters) or larger, and includes the mixing of putties or polyputties. Mixing may involve the blending of resin, gel coat, filler, reinforcement, pigments, catalysts, monomers, and any other additives.

Mold means a cavity or matrix into or onto which the composite materials are placed and from which the product takes its form.

Neat gel coat means the resin as purchased for the supplier, but not including any inert fillers.

Neat gel coat plus means neat gel coat plus any organic HAP-containing materials that are added to the gel coat by the supplier or the facility, excluding catalysts and promoters. Neat gel coat plus does include any additions of styrene or methyl methacrylate monomer in any form, including in catalysts and promoters.

Neat resin means the resin as purchased from the supplier, but not including any inert fillers.

Neat resin plus means neat resin plus any organic HAP-containing materials that are added to the resin by the supplier or the facility. Neat resin plus does not include any added filler, reinforcements, catalysts, or promoters. Neat resin plus does include any additions of styrene or methyl methacrylate monomer in any form, including in catalysts and promoters.

Nonatomized mechanical application means the use of application tools other than brushes to apply resin and gel coat where the application tool has documentation provided by its manufacturer or user that this design of the application tool has been organic HAP emissions tested, and the test results showed that use of this application tool results in organic HAP emissions that are no greater than the organic HAP emissions predicted by the applicable nonatomized application equation(s) in Table 1 to this subpart. In addition, the device must be operated according to the manufacturer's directions, including instructions to prevent the operation of the device at excessive spray pressures. Examples of nonatomized application include flow coaters, pressure fed rollers, and fluid impingement spray guns.

Noncorrosion-resistant resin means any resin other than a corrosion-resistant resin or a tooling resin.

Noncorrosion-resistant product means any product other than a corrosion-resistant product or a mold.

Non-routine manufacture means that you manufacture parts to replace worn or damaged parts of a reinforced plastic composites product, or a product containing reinforced plastic composite parts, that was originally manufactured in another facility. For a part to qualify as non-routine manufacture, it must be used for repair or replacement, and the manufacturing schedule must be based on the current or anticipated repair needs of the reinforced plastic composites product, or a product containing reinforced plastic composite parts.

Operation means a specific process typically found at a reinforced plastic composites facility. Examples of operations are noncorrosion-resistant manual resin application, corrosion-resistant mechanical resin application, pigmented gel coat application, mixing and HAP-containing materials storage.

Operation group means a grouping of individual operations based primarily on mold type. Examples are open molding, closed molding, and centrifugal casting.

Open molding means a process for fabricating composites in a way that HAP-containing materials are exposed to the atmosphere. Open molding includes processes such as manual resin application, mechanical resin application, filament application, and gel coat application. Open molding also includes application of resins and gel coats to parts that have been removed from the open mold.

Pigmented gel coat means a gel coat that has a color, but does not contain 10 percent or more titanium dioxide by weight. It can be used to form the surface layer of any composites other than those used for molds in tooling operations.

Polymer casting means a process for fabricating composites in which composite materials are ejected from a casting machine or poured into an open, partially open, or closed mold and cured. After the composite

materials are poured into the mold, they are not rolled out or worked while the mold is open, except for smoothing the material and/or vibrating the mold to remove bubbles. The composite materials may or may not include reinforcements. Products produced by the polymer casting process include cultured marble products and polymer concrete.

Preform Injection means a form of pultrusion where liquid resin is injected to saturate reinforcements in an enclosed system containing one or more chambers with openings only large enough to admit reinforcements. Resin, which drips out of the chamber(s) during the process, is collected in closed piping or covered troughs and then into a covered reservoir for recycle. Resin storage vessels, reservoirs, transfer systems, and collection systems are covered or shielded from the ambient air. Preform injection differs from direct die injection in that the injection chambers are not directly attached to the die.

Prepreg materials means reinforcing fabric received precoated with resin which is usually cured through the addition of heat.

Pultrusion means a continuous process for manufacturing composites that have a uniform cross-sectional shape. The process consists of pulling a fiber-reinforcing material through a resin impregnation chamber or bath and through a shaping die, where the resin is subsequently cured. There are several types of pultrusion equipment, such as open bath, resin injection, and direct die injection equipment.

Repair means application of resin or gel coat to a part to correct a defect, where the resin or gel coat application occurs after the part has gone through all the steps of its typical production process, or the application occurs outside the normal production area. For purposes of this subpart, rerouting a part back through the normal production line, or part of the normal production line, is not considered repair.

Resin transfer molding means a process for manufacturing composites whereby catalyzed resin is transferred or injected into a closed mold in which fiberglass reinforcement has been placed.

Sheet molding compound (SMC) means a ready-to-mold putty-like molding compound that contains resin(s) processed into sheet form. The molding compound is sandwiched between a top and a bottom film. In addition to resin(s), it may also contain catalysts, fillers, chemical thickeners, mold release agents, reinforcements, and other ingredients. Sheet molding compound can be used in compression molding to manufacture reinforced plastic composites products.

Shrinkage controlled resin means a resin that when promoted, catalyzed, and filled according to the resin manufacturer's recommendations demonstrates less than 0.3 percent linear shrinkage when tested according to ASTM D2566.

SMC manufacturing means a process which involves the preparation of SMC.

Tooling gel coat means a gel coat that is used to form the surface layer of molds. Tooling gel coats generally have high heat distortion temperatures, low shrinkage, high barcol hardness, and high dimensional stability.

Tooling resin means a resin that is used to produce molds. Tooling resins generally have high heat distortion temperatures, low shrinkage, high barcol hardness, and high dimensional stability.

Uncontrolled oven organic HAP emissions means those organic HAP emissions emitted from the oven through closed vent systems to the atmosphere and not to a control device. These organic HAP emissions do not include organic HAP emissions that may escape into the workplace through the opening of panels or doors on the ovens or other similar fugitive organic HAP emissions in the workplace.

Uncontrolled wet-out area organic HAP emissions means any or all of the following: Organic HAP emissions from wet-out areas that do not have any capture and control, organic HAP emissions that escape from wet-out area enclosures, and organic HAP emissions from wet-out areas that are captured by an enclosure but are vented to the atmosphere and not to an add-on control device.

Unfilled means that there has been no addition of fillers to a resin or that less than 10 percent of fillers by weight of the total resin plus filler mixture has been added.

Vapor suppressant means an additive, typically a wax, that migrates to the surface of the resin during curing and forms a barrier to seal in the styrene and reduce styrene emissions.

Vapor-suppressed resin means a resin containing a vapor suppressant added for the purpose of reducing styrene emissions during curing.

White and off-white gel coat means a gel coat that contains 10 percent of more titanium dioxide by weight.

Table 2 to Subpart WWWW of Part 63—Compliance Dates for New and Existing Reinforced Plastic Composites Facilities

As required in §§63.5800 and 63.5840 you must demonstrate compliance with the standards by the dates in the following table:

| If your facility is . . . | And . . . | Then you must comply by this date . . . |
|----------------------------|---|--|
| 1. An existing source..... | a. Is a major source on or before the publication date of this subpart. | i. April 21, 2006, or ii. You must accept and meet an enforceable HAP emissions limit below the major source threshold prior to April 21, 2006. |

Table 4 to Subpart WWWW of Part 63—Work Practice Standards

As specified in §63.5805, you must meet the work practice standards in the following table that apply to you:

| For . . . | You must . . . |
|--|---|
| 1. a new or existing closed molding operation using compression/injection molding. | uncover, unwrap or expose only one charge per mold cycle per compression/injection molding machine. For machines with multiple molds, one charge means sufficient material to fill all molds for one cycle. For machines with robotic loaders, no more than one charge may be exposed prior to the loader. For machines fed by hoppers, sufficient material may be uncovered to fill the hopper. Hoppers must be closed when not adding materials. Materials may be uncovered to feed to slitting machines. Materials must be recovered after slitting. |
| 2. a new or existing cleaning operation. | not use cleaning solvents that contain HAP, except that styrene may be used as a cleaner in closed |

systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin.

Table 4 to Subpart WWWW of Part 63—Work Practice Standards

As specified in §63.5805, you must meet the work practice standards in the following table that apply to you:

| For . . . | You must . . . |
|---|--|
| 3. a new or existing materials HAP-containing materials storage operation. | keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety. |
| 4. an existing or new SMC manufacturing operation. | close or cover the resin delivery system to the doctor box on each SMC manufacturing machine. The doctor box itself may be open. |
| 5. an existing or new SMC manufacturing operation. | use a nylon containing film to enclose SMC. |
| 6. all mixing or BMC manufacturing operations\1\. | use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation. |
| 7. all mixing or BMC manufacturing operations\1\. | close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety. Vents routed to a 95 percent efficient control device are exempt from this requirement. |
| 8. all mixing or BMC manufacturing operations\1\. | keep the mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels. |
| \1\ Containers of 5 gallons or less may be open when active mixing is taking place, or during periods when they are in process (i.e., they are actively being used to apply resin). For polymer casting mixing operations, containers with a surface area of 500 square inches or less may be open while active mixing is taking place. | |

Table 9 to Subpart WWW of Part 63—Initial Compliance With Work Practice Standards
As specified in §63.5860(a), you must demonstrate initial compliance with work practice standards as specified in the following table

| For . . . | That must meet the following standards . . . | You have demonstrated initial compliance if . . . |
|--|---|--|
| 1. a new or existing closed molding operation using compression/injection molding. | uncover, unwrap or expose only one charge per mold cycle per compression/injection molding machine. For machines with multiple molds, one charge means sufficient material to fill all molds for one cycle. For machines with robotic loaders, no more than one charge may be exposed prior to the loader. For machines fed by hoppers, sufficient material may be uncovered to fill the hopper. Hoppers must be closed when not adding materials. Materials may be uncovered to feed to slitting machines. Materials must be recovered after slitting. | the owner or operator submits a certified statement in the notice of compliance status that only one charge is uncovered, unwrapped, or exposed per mold cycle per compression/injection molding machine, or prior to the loader, hoppers are closed except when adding materials, and materials are recovered after slitting. |

Table 9 to Subpart WWW of Part 63—Initial Compliance With Work Practice Standards
As specified in §63.5860(a), you must demonstrate initial compliance with work practice standards as specified in the following table

| For . . . | That must meet the following standards . . . | You have demonstrated initial compliance if . . . |
|--|---|---|
| 2. a new or existing cleaning operation. | not use cleaning solvents that contain HAP, except that styrene may be used in closed systems, and organic HAP containing materials may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin between storage and applying resin to the mold or reinforcement. | the owner or operator submits a certified statement in the notice of compliance status that all cleaning materials, except styrene contained in closed systems, or materials used to clean cured resin from application equipment, contain no HAP. |
| 3. a new or existing materials HAP-containing materials storage operation. | keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety. | the owner or operator submits a certified statement in the notice of compliance status that all HAP-containing storage containers are kept closed or covered except when adding or removing materials, and that any bulk storage tanks are vented only as necessary for safety. |

Table 9 to Subpart WWW of Part 63—Initial Compliance With Work Practice Standards
As specified in §63.5860(a), you must demonstrate initial compliance with work practice standards as specified in the following table

| For . . . | That must meet the following standards . . . | You have demonstrated initial compliance if . . . |
|--|---|--|
| 4. an existing or new SMC manufacturing operation. | close or cover the resin delivery system to the doctor box on each SMC manufacturing machine. The doctor box itself may be open. | the owner or operator submits a certified statement in the notice of compliance status that the resin delivery system is closed or covered. |
| 5. an existing or new SMC manufacturing operation. | use a nylon containing film to enclose SMC. | the owner or operator submits a certified statement in the notice of compliance status that a nylon-containing film is used to enclose SMC. |
| 6. an existing or new mixing or BMC manufacturing operation. | use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation. | the owner or operator submits a certified statement in the notice of compliance status that mixer covers are closed during mixing except when adding materials to the mixers, and that gaps around mixer shafts and required instrumentation are less than 1 inch. |

Table 9 to Subpart WWWW of Part 63—Initial Compliance With Work Practice Standards

As specified in §63.5860(a), you must demonstrate initial compliance with work practice standards as specified in the following table

| For . . . | That must meet the following standards . . . | You have demonstrated initial compliance if . . . |
|---|---|--|
| 7. an existing mixing or BMC manufacturing operation. | not actively vent mixers to the atmosphere while the mixing agitator is turning, except that venting is allowed during addition of materials, or as necessary prior to adding materials for safety. | the owner or operator submits a certified statement in the notice of compliance status that mixers are not actively vented to the atmosphere when the agitator is turning except when adding materials or as necessary for safety. |
| 8. a new or existing mixing or BMC manufacturing operation. | keep the mixer covers closed during mixing except when adding materials to the mixing vessels. | the owner or operator submits a certified statement in the notice of compliance status that mixers closed except when adding materials to the mixing vessels. |

Table 13 to Subpart WWWW of Part 63—Applicability and Timing of Notifications

As required in §63.5905(a), you must determine the applicable notifications and submit them by the dates shown in the following table:

| If your facility . . . | You must submit . . . | By this date . . . |
|---|---|--|
| 1. Is an existing source subject to this subpart. | An Initial Notification containing the information specified in § 63.9(b)(2). | No later than the dates specified in § 63.9(b)(2). |

Table 14 to Subpart WWWW of Part 63—Requirements for Reports

As required in §63.5910(a), (b), (g), and (h), you must submit reports on the schedule shown in the following table:

| You must submit a(n) | The report must contain . . . | You must submit the report . . . |
|---------------------------|--|---|
| 1. Compliance report..... | a. A statement that there were no deviations during that reporting period if there were no deviations from any emission limitations (emission limit, operating limit, opacity limit, and visible emission limit) that apply to you and there were no deviations from the requirements for work practice standards in Table 4 to this subpart that apply to you. If there were no periods during which the CMS, including CEMS, and operating parameter monitoring systems, was out of control as specified in § 63.8(c)(7), the report must also contain a statement that there were no periods during which the CMS was out of control during the reporting period. | Semiannually according to the requirements in § 63.5910(b). |

Table 14 to Subpart WWWW of Part 63—Requirements for Reports

As required in §63.5910(a), (b), (g), and (h), you must submit reports on the schedule shown in the following table:

| You must submit a(n) | The report must contain . . . | You must submit the report . . . |
|--|--|--|
| | b. The information in § 63.5910(d) if you have a deviation from any emission limitation (emission limit, operating limit, or work practice standard) during the reporting period. If there were periods during which the CMS, including CEMS, and operating parameter monitoring systems, was out of control, as specified in § 63.8(c)(7), the report must contain the information in § 63.5910(e). | Semiannually according to the requirements in § 63.5910(b). |
| | c. The information in § 63.10(d)(5)(i) if you had a startup, shutdown or malfunction during the reporting period, and you took actions consistent with your startup, shutdown, and malfunction plan. | Semiannually according to the requirements in § 63.5910(b). |
| 2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan. | a. Actions taken for the event. | By fax or telephone within 2 working days after starting actions inconsistent with the plan. |
| | b. The information in § 63.10(d)(5)(ii). | By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority. (§ 63.10(d)(5)(ii)). |

Table 15 to Subpart WWWW of Part 63—Applicability of General Provisions (Subpart A) to Subpart WWWW of Part 63

As specified in §63.5925, the parts of the General Provisions which apply to you are shown in the following table:

| The general provisions reference . . . | That addresses . . . | And applies to subpart WWWW of part 63 . . . | Subject to the following additional information . . . |
|--|---|--|---|
| § 63.1(a)(1)..... | General applicability of the general provisions. | Yes..... | Additional terms defined in subpart WWWW of Part 63, when overlap between subparts A and WWWW of Part 63 of this part, subpart WWWW of Part 63 takes precedence. |
| § 63.1(a)(2) through (4)..... | General applicability of the general provisions. | Yes..... | |
| § 63.1(a)(5)..... | Reserved..... | No..... | |
| § 63.1(a)(6)..... | General applicability of the general provisions. | Yes..... | |
| § 63.1(a)(7) through (9)..... | Reserved..... | No..... | |
| § 63.1(a)(10) through (14)..... | General applicability of the general provisions. | Yes..... | |
| § 63.1(b)(1)..... | Initial applicability determination. | Yes..... | Subpart WWWW of Part 63 clarifies the applicability in §§ 63.5780 and 63.5785. |
| § 63.1(b)(2)..... | Reserved..... | No..... | |
| § 63.1(b)(3)..... | Record of the applicability determination. | Yes..... | |
| § 63.1(c)(1)..... | Applicability of this part after a relevant standard has been set under this part. | Yes..... | Subpart WWWW of Part 63 clarifies the applicability of each paragraph of subpart A to sources subject to subpart WWWW of Part 63. |
| § 63.1(c)(2)..... | Title V operating permit requirement. | Yes..... | All major affected sources are required to obtain a title V operating permit. Area sources are not subject to subpart WWWW of Part 63. |
| § 63.1(c)(3) and (4)..... | Reserved..... | No..... | |
| § 63.1(c)(5)..... | Notification requirements for an area source that increases HAP emissions to major source levels. | Yes..... | |
| § 63.1(d)..... | Reserved..... | No..... | |
| § 63.1(e)..... | Applicability of permit program before a relevant standard has been set under this part. | Yes..... | |
| § 63.2..... | Definitions..... | Yes..... | Subpart WWWW of Part 63 defines terms in § 63.5935. When overlap between subparts A and WWWW of Part 63 occurs, you must comply with the subpart WWWW of Part 63 definitions, which take precedence over the subpart A definitions. |
| § 63.3..... | Units and abbreviations | Yes..... | Other units and abbreviations used in subpart WWWW of Part 63 are defined in subpart WWWW of Part 63. |
| § 63.4..... | Prohibited activities and circumvention. | Yes..... | § 63.4(a)(3) through (5) is reserved and does not apply. |

| The general provisions reference . . . | That addresses . . . | And applies to subpart WWW of part 63 . . . | Subject to the following additional information . . . |
|--|--|--|---|
| § 63.5(a)(1) and (2)..... | Applicability of construction and reconstruction. | Yes..... | Existing facilities do not become reconstructed under subpart WWW of Part 63. |
| § 63.5(b)(1)..... | Relevant standards for new sources upon construction. | Yes..... | Existing facilities do not become reconstructed under subpart WWW of Part 63. |
| § 63.5(b)(2)..... | Reserved..... | No..... | |
| § 63.5(b)(3)..... | New construction/reconstruction. | Yes..... | Existing facilities do not become reconstructed under subpart WWW of Part 63. |
| § 63.5(b)(4)..... | Construction/reconstruction notification. | Yes..... | Existing facilities do not become reconstructed under subpart WWW of Part 63. |
| § 63.5(b)(5)..... | Reserved..... | No..... | |
| § 63.5(b)(6)..... | Equipment addition or process change. | Yes..... | Existing facilities do not become reconstructed under subpart WWW of Part 63. |
| § 63.5(c)..... | Reserved..... | No..... | |
| § 63.5(d)(1)..... | General application for approval of construction or reconstruction. | Yes..... | Existing facilities do not become reconstructed under subpart WWW of Part 63. |
| § 63.5(d)(2)..... | Application for approval of construction. | Yes..... | |
| § 63.5(d)(3)..... | Application for approval of reconstruction. | No..... | |
| § 63.5(d)(4)..... | Additional information. | Yes..... | |
| § 63.5(e)(1) through (5)..... | Approval of construction or reconstruction. | Yes..... | |
| § 63.5(f)(1) and (2)..... | Approval of construction or reconstruction based on prior State preconstruction review. | Yes..... | |
| § 63.6(a)(1)..... | Applicability of compliance with standards and maintenance requirements. | Yes..... | |
| § 63.6(a)(2)..... | Applicability of area sources that increase HAP emissions to become major sources. | Yes..... | |
| § 63.6(b)(1) through (5)..... | Compliance dates for new and reconstructed sources. | Yes..... | Subpart WWW of Part 63 clarifies compliance dates in § 63.5800. |
| § 63.6(b)(6)..... | Reserved..... | No..... | |
| § 63.6(b)(7)..... | Compliance dates for new operations or equipment that cause an area source to become a major source. | Yes..... | New operations at an existing facility are not subject to new source standards. |
| § 63.6(c)(1) and (2)..... | Compliance dates for existing sources. | Yes..... | Subpart WWW of Part 63 clarifies compliance dates in § 63.5800. |
| § 63.6(c)(3) and (4)..... | Reserved..... | No..... | |
| § 63.6(c)(5)..... | Compliance dates for existing area sources that become major. | Yes..... | Subpart WWW of Part 63 clarifies compliance dates in § 63.5800. |
| § 63.6(d)..... | Reserved..... | No..... | |
| § 63.6(e)(1) and (2)..... | Operation & maintenance requirements. | Yes..... | |
| § 63.6(e)(3)..... | Startup, shutdown, and malfunction plan and recordkeeping. | Yes..... | Subpart WWW of Part 63 requires a startup, shutdown, and malfunction plan only for sources using add-on controls. |

| The general provisions reference . . . | That addresses . . . | And applies to subpart WWWW of part 63 . . . | Subject to the following additional information . . . |
|--|---|--|---|
| § 63.6(f)(1)..... | Compliance except during periods of startup, shutdown, and malfunction. | No..... | Subpart WWWW of Part 63 requires compliance during periods of startup, shutdown, and malfunction, except startup, shutdown, and malfunctions for sources using add-on controls. |
| § 63.6(f)(2) and (3)..... | Methods for determining compliance. | Yes..... | |
| § 63.6(g)(1) through (3)..... | Alternative standard... | Yes..... | |
| § 63.6(h)..... | Opacity and visible emission Standards. | No..... | Subpart WWWW of Part 63 does not contain opacity or visible emission standards. |
| § 63.6(i)(1) through (14)..... | Compliance extensions.. | Yes..... | |
| § 63.6(i)(15)..... | Reserved..... | No..... | |
| § 63.6(i)(16)..... | Compliance extensions.. | Yes..... | |
| § 63.6(j)..... | Presidential compliance exemption. | Yes..... | |
| § 63.7(a)(1)..... | Applicability of performance testing requirements. | Yes..... | |
| § 63.7(a)(2)..... | Performance test dates. | No..... | Subpart WWWW of Part 63 initial compliance requirements are in § 63.5840. |
| § 63.7(a)(3)..... | CAA Section 114 authority. | Yes..... | |
| § 63.7(b)(1)..... | Notification of performance test. | Yes..... | |
| § 63.7(b)(2)..... | Notification rescheduled performance test. | Yes..... | |
| § 63.7(c)..... | Quality assurance program, including test plan. | Yes..... | Except that the test plan must be submitted with the notification of the performance test. |
| § 63.7(d)..... | Performance testing facilities. | Yes..... | |
| § 63.7(e)..... | Conditions for conducting performance tests. | Yes..... | Performance test requirements are contained in § 63.5850. Additional requirements for conducting performance tests for continuous lamination/casting are included in § 63.5870. |
| § 63.7(f)..... | Use of alternative test method. | Yes..... | |
| § 63.7(g)..... | Performance test data analysis, recordkeeping, and reporting. | Yes..... | |
| § 63.7(h)..... | Waiver of performance tests. | Yes..... | |
| § 63.8(a)(1) and (2)..... | Applicability of monitoring requirements. | Yes..... | |
| § 63.8(a)(3)..... | Reserved..... | No..... | |
| § 63.8(a)(4)..... | Monitoring requirements when using flares. | Yes..... | |
| § 63.8(b)(1)..... | Conduct of monitoring exceptions. | Yes..... | |
| § 63.8(b)(2) and (3)..... | Multiple effluents and multiple monitoring systems. | Yes..... | |
| § 63.8(c)(1)..... | Compliance with CMS operation and maintenance requirements. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(c)(2) and (3)..... | Monitoring system installation. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(c)(4)..... | CMS requirements..... | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |

| The general provisions reference . . . | That addresses . . . | And applies to subpart WWW of part 63 . . . | Subject to the following additional information . . . |
|--|--|--|---|
| § 63.8(c)(5)..... | Continuous Opacity Monitoring System (COMS) minimum procedures. | No..... | Subpart WWW of Part 63 does not contain opacity standards. |
| § 63.8(c)(6) through (8)..... | CMS calibration and periods CMS is out of control. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(d)..... | CMS quality control program, including test plan and all previous versions. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(e)(1)..... | Performance evaluation of CMS. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(e)(2)..... | Notification of performance evaluation. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(e)(3) and (4)..... | CMS requirements/alternatives. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(e)(5)(i)..... | Reporting performance evaluation results. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(e)(5)(ii)..... | Results of COMS performance evaluation. | No..... | Subpart WWW of Part 63 does not contain opacity standards. |
| § 63.8(f)(1) through (3)..... | Use of an alternative monitoring method. | Yes..... | |
| § 63.8(f)(4)..... | Request to use an alternative monitoring method. | Yes..... | |
| § 63.8(f)(5)..... | Approval of request to use an alternative monitoring method. | Yes..... | |
| § 63.8(f)(6)..... | Request for alternative to relative accuracy test and associated records. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.8(g)(1) through (5)..... | Data reduction..... | Yes..... | |
| § 63.9(a)(1) through (4)..... | Notification requirements and general information. | Yes..... | |
| § 63.9(b)(1)..... | Initial notification applicability. | Yes..... | |
| § 63.9(b)(2)..... | Notification for affected source with initial startup before effective date of standard. | Yes..... | |
| § 63.9(b)(3)..... | Reserved..... | No..... | |
| § 63.9(b)(4)(i)..... | Notification for a new or reconstructed major affected source with initial startup after effective date for which an application for approval of construction or reconstruction is required. | Yes..... | |
| § 63.9(b)(4)(ii) through (iv)... | Reserved..... | No..... | |

| The general provisions reference . . . | That addresses . . . | And applies to subpart WWWW of part 63 . . . | Subject to the following additional information . . . |
|--|---|--|---|
| § 63.9(b)(4)(v)..... | Notification for a new or reconstructed major affected source with initial startup after effective date for which an application for approval of construction or reconstruction is required. | Yes..... | Existing facilities do not become reconstructed under subpart WWWW of Part 63. |
| § 63.9(b)(5)..... | Notification that you are subject to this subpart for new or reconstructed affected source with initial startup after effective date and for which an application for approval of construction or reconstruction is not required. | Yes..... | Existing facilities do not become reconstructed under subpart WWWW of Part 63. |
| § 63.9(c)..... | Request for compliance extension. | Yes..... | |
| § 63.9(d)..... | Notification of special compliance requirements for new source. | Yes..... | |
| § 63.9(e)..... | Notification of performance test. | Yes..... | |
| § 63.9(f)..... | Notification of opacity and visible emissions observations. | No..... | Subpart WWWW of Part 63 does not contain opacity or visible emission standards. |
| § 63.9(g)(1)..... | Additional notification requirements for sources using CMS. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.9(g)(2)..... | Notification of compliance with opacity emission standard. | No..... | Subpart WWWW of Part 63 does not contain opacity emission standards. |
| § 63.9(g)(3)..... | Notification that criterion to continue use of alternative to relative accuracy testing has been exceeded. | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.9(h)(1) through (3)..... | Notification of compliance status. | Yes..... | |
| § 63.9(h)(4)..... | Reserved..... | No..... | |
| § 63.9(h)(5) and (6)..... | Notification of compliance status. | Yes..... | |
| § 63.9(i)..... | Adjustment of submittal deadlines. | Yes..... | |
| § 63.9(j)..... | Change in information provided. | Yes..... | |
| § 63.10(a)..... | Applicability of recordkeeping and reporting. | Yes..... | |
| § 63.10(b)(1)..... | Records retention..... | Yes..... | |
| § 63.10(b)(2)(i) through (v).... | Records related to startup, shutdown, and malfunction. | Yes..... | Only applies to facilities that use an add-on control device. |
| § 63.10(b)(2)(vi) through (xi).. | CMS records, data on performance tests, CMS performance evaluations, measurements necessary to determine conditions of performance tests, and performance evaluations. | Yes..... | |
| § 63.10(b)(2)(xii)..... | Record of waiver of recordkeeping and reporting. | Yes..... | |
| § 63.10(b)(2)(xiii)..... | Record for alternative to the relative accuracy test. | Yes..... | |
| § 63.10(b)(2)(xiv)..... | Records supporting initial notification and notification of compliance status. | Yes..... | |
| § 63.10(b)(3)..... | Records for applicability determinations. | Yes..... | |

| The general provisions reference . . . | That addresses . . . | And applies to subpart WWWW of part 63 . . . | Subject to the following additional information . . . |
|--|---|--|---|
| § 63.10(c)(1)..... | CMS records..... | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.10(c)(2) through (4)..... | Reserved..... | No..... | |
| § 63.10(c)(5) through (8)..... | CMS records..... | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.10(c)(9)..... | Reserved..... | No..... | |
| § 63.10(c)(10) through (15)..... | CMS records..... | Yes..... | This section applies if you elect to use a CMS to demonstrate continuous compliance with an emission limit. |
| § 63.10(d)(1)..... | General reporting requirements. | Yes..... | |
| § 63.10(d)(2)..... | Report of performance test results. | Yes..... | |
| § 63.10(d)(3)..... | Reporting results of opacity or visible emission observations. | No..... | Subpart WWWW of Part 63 does not contain opacity or visible emission standards. |
| § 63.10(d)(4)..... | Progress reports as part of extension of compliance. | Yes..... | |
| § 63.10(d)(5)..... | Startup, shutdown, and malfunction reports. | Yes..... | Only applies if you use an add-on control device. |
| § 63.10(e)(1) through (3)..... | Additional reporting requirements for CMS. | Yes..... | This section applies if you have an add-on control device and elect to use a CEM to demonstrate continuous compliance with an emission limit. |
| § 63.10(e)(4)..... | Reporting COMS data.... | No..... | Subpart WWWW of Part 63 does not contain opacity standards. |
| § 63.10(f)..... | Waiver for recordkeeping or reporting. | Yes..... | |
| § 63.11..... | Control device requirements. | Yes..... | Only applies if you elect to use a flare as a control device. |
| § 63.12..... | State authority and delegations. | Yes..... | |
| § 63.13..... | Addresses of State air pollution control agencies and EPA Regional Offices. | Yes..... | |
| § 63.14..... | Incorporations by reference. | Yes..... | |
| § 63.15..... | Availability of information and confidentiality. | Yes..... | |

E.2.3 One Time Deadlines Relating to NESHAP WWWW

- (a) The Permittee must conduct the performance tests, performance evaluations, design evaluations, capture efficiency testing, and other initial compliance demonstrations by April 21, 2006.
- (b) A notification of compliance status shall be submitted as follows:
 - (1) If complying with organic HAP emissions limit average provisions, the Permittee must submit a notification of compliance status on or before the close of business on May 21, 2007.
 - (2) If complying with organic HAP content limits, application equipment requirements, or organic HAP emissions limits other than organic HAP emissions limit averaging, the Permittee must submit a notification of compliance status on or before the close of business on May 21, 2006.

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

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Meridian Automotive Systems
Source Address: 14123 Roth Road, Grabill, Indiana 46741
Mailing Address: 14123 Roth Road, Grabill, Indiana 46741
Part 70 Permit No.: T 003-23272-00059

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
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Meridian Automotive Systems
Source Address: 14123 Roth Road, Grabill, Indiana 46741
Mailing Address: 14123 Roth Road, Grabill, Indiana 46741
Part 70 Permit No.: T 003-23272-00059

This form consists of 2 pages

Page 1 of 2

| |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) C 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 C 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 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS-FIRED BOILER CERTIFICATION**

Source Name: Meridian Automotive Systems
Source Address: 14123 Roth Road, Grabill, Indiana 46741
Mailing Address: 14123 Roth Road, Grabill, Indiana 46741
Part 70 Permit No.: T 003-23272-00059

| |
|---|
| <input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Alternate Fuel burned |
| From _____ To: _____ |

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

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

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

Part 70 Quarterly Report

Source Name: Meridian Automotive Systems
Source Address: 14123 Roth Road, Grabill, Indiana 46741
Mailing Address: 14123 Roth Road, Grabill, Indiana 46741
Part 70 Permit No.: T 003-23272-00059
Facilities: SB-C24 and SB-C32
Parameter: Total VOC input
Limit: Less than a total of 66.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

| Month | VOC input (tons) | VOC input (tons) | VOC input (tons) |
|-------|------------------|--------------------|------------------|
| | 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 Quarterly Report

Source Name: Meridian Automotive Systems
 Source Address: 14123 Roth Road, Grabill, Indiana 46741
 Mailing Address: 14123 Roth Road, Grabill, Indiana 46741
 Part 70 Permit No.: T 003-23272-00059
 Facilities: The four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) and the nineteen (19) SMC presses (PR-0419, PR-0420, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PRV-0849, PRV-1026, PR-1571, PR-2072 and PR-1073),

Parameter: Total VOC emissions
 Limit: Less than a total of 246.1 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance shall be shown using the following equation:

$$E = U_{PB} + (V_{SMC} \times 0.0059) + (P_{SMC} \times 0.0001254) + (U_{SMC} \times 0.03)$$

Where:

- E = Total VOC emissions (tons)
- U_{PB} = Total VOC input to the spray booths (SB-A, SB-B, SB-C24, SB-C32) (tons)
- V_{SMC} = Total VOC input to the three (3) SMC Machines (tons)
- P_{SMC} = Total SMC produced at the three (3) SMC Machines (tons)
- U_{SMC} = Total VOC input to the nineteen (19) SMC presses (tons)

YEAR: _____

| Month | VOC emissions (tons) | | | | | VOC emissions (tons) | | | | | VOC emissions (tons) | | | | |
|-------|----------------------|-----------|-----------|-----------|---|----------------------|-----------|-----------|-----------|---|----------------------|-----------|-----------|-----------|---|
| | This Month | | | | | Previous 11 Months | | | | | 12 Month Total | | | | |
| | U_{PB} | V_{SMC} | P_{SMC} | U_{SMC} | E | U_{PB} | V_{SMC} | P_{SMC} | U_{SMC} | E | U_{PB} | V_{SMC} | P_{SMC} | U_{SMC} | E |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

- 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: Meridian Automotive Systems
 Source Address: 14123 Roth Road, Grabill, Indiana 46741
 Mailing Address: 14123 Roth Road, Grabill, Indiana 46741
 Part 70 Permit No.: T 003-23272-00059

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

| | |
|----------------------------|--|
| Source Name: | Meridian Automotive Systems |
| Source Location: | 14123 Roth Road, Grabill, Indiana 46741 |
| County: | Allen |
| SIC Code: | 3089 |
| Permit Renewal No.: | T 003-23272-00059 |
| Permit Reviewer: | Edward A. Longenberger |

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Meridian Automotive Systems relating to the operation of a high-pressure fiberglass-reinforced thermoset manufacturing and painting source.

History

On June 26, 2006, Meridian Automotive Systems submitted an application to the OAQ requesting to renew its operating permit. Meridian Automotive Systems was issued a Part 70 Operating Permit Renewal on March 26, 2002.

Permitted Emission Units and Pollution Control Equipment**Boilers**

- (a) One (1) boiler, identified as BLR-A, firing natural gas as primary fuel and diesel fuel as backup, installed in 2000, exhausted through Stack M, rated at 16.7 million British thermal units per hour.
- (b) One (1) boiler, identified as BLR-B, installed in 1974, firing natural gas as primary fuel and diesel fuel as backup, rated at 8.4 million British thermal units per hour.

Painting Operations

- (c) One (1) spray booth, identified as SB-A, equipped with HVLP spray applicators or with equivalent or better spray applicators and dry filters for overspray control, installed in September 1993 and modified in May 2003, exhausted through Stack G, capacity: 13.9 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (d) One (1) spray booth, identified as SB-B, equipped with air atomization spray guns and dry filters for overspray control, installed in June 1973, exhausted through Stacks I, J, and K, capacity: 10 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (e) One (1) spray booth, identified as SB-C24, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks D and E, capacity: 3 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.

- (f) One (1) spray booth, identified as SB-C32, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks B and C, capacity: 4 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.

Compounding and Reinforced Molding Operations

- (g) Two (2) SMC manufacturing lines, identified as Machine 1 and Machine 2, reconstructed and relocated in 2003, with a capacity of 12,000 pounds of SMC per hour, each, and one (1) SMC manufacturing line, identified as Machine 3, installed in 2004, with a capacity of 2,670 pounds of SMC per hour, consisting of the following. Under 40 CFR 63 (NESHAP), Subpart WWWW, this is considered a sheet molding compound (SMC) manufacturing operation:
 - (1) eighteen (18) resin storage tanks, with storage capacities between 2,000 and 6,300 gallons, each,
 - (2) one (1) small add material handling area,
 - (3) one (1) SMC mix room, consisting of four (4) mixing tanks, seven (7) holding tanks, and six (6) dynamic mixers,
 - (4) three (3) SMC manufacturing operations,
 - (5) one (1) SMC maturation area,
 - (6) two (2) calcium carbonate silos, storing 270,000 pounds, and
 - (7) one (1) dust collection system, exhausted through Stack SV-01.
- (h) Nineteen (19) injection or compression molding SMC presses. Under 40 CFR 63 (NESHAP), Subpart WWWW, each of the presses is considered a sheet molding compound (SMC) closed molding operation:
 - (1) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0419, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (2) One (1) Erie 400 ton reinforced plastic molding press, identified as PR-0420, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (3) One (1) Erie 600 ton reinforced plastic molding press, identified as PR-0618, installed in 1968 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
 - (4) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1222, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
 - (5) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, identified as PRV-1223, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.

- (6) One (1) W-W-M 1200 ton reinforced plastic molding press, identified as PRV-1250, installed in 1978 and rebuilt in 1985, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (7) One (1) Erie 1500 ton vacuum assisted reinforced plastic molding press, identified as PRV-1558, installed in 1977, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (8) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2024, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (9) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2025, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (10) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, identified as PRV-2059, installed in 1984, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (11) One (1) 2500 ton reinforced plastic molding press, identified as PR-2566, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2572.
- (12) One (1) 2500 ton reinforced plastic molding press, identified as PR-2567, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously identified as PRV-2573.
- (13) One (1) W-W-M 4400 ton vacuum assisted reinforced plastic molding press, identified as PRV-4470, installed in 1995, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (14) One (1) French 600 ton vacuum assisted reinforced plastic molding press, identified as PRV-0648, installed in 1978 and rebuilt in 1990, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (15) One (1) French 800 ton vacuum assisted reinforced plastic molding press, identified as PRV-0849, installed in 1978 and rebuilt in 1990, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (16) One (1) EEMCO 1,000 ton vacuum assisted reinforced plastic molding press, identified as PRV-1026, installed in 1977 and rebuilt in 1990, capacity: 275 pounds of fiberglass reinforced plastic parts per hour.
- (17) One (1) HPM Corporation Injection Molding Press, identified as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (18) One (1) 2,000-ton HPM Corporation injection molding press, identified as PR-2072, installed in 2004, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (19) One (1) 1,000-ton HPM Corporation injection molding press, identified as PR-1073, installed in 2005, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

Insignificant Activities

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, rated at a total of 69.9 million British thermal units per hour, including:
 - (1) One (1) hook oven, identified as BO-PH, installed in 1991, exhausted through Stack Q, rated at 0.4 million British thermal units per hour, capacity: 10 pounds of waste per hour. [326 IAC 4-2-2]
 - (2) One (1) AMU A-shop, rated at: 7.425 million British thermal units per hour.
 - (3) One (1) AMU A-shop, rated at: 5.280 million British thermal units per hour.
 - (4) One (1) AMU B-shop (above bake oven), rated at: 2.4 million British thermal units per hour.
 - (5) One (1) AMU B-shop (above washer), rated at: 2.0 million British thermal units per hour.
 - (6) One horizontal air make-up unit located in the C-shop, rated at 1.75 million British thermal units per hour.
 - (7) One (1) AMU C-shop 24 ft. long paint booth, rated at: 6.0 million British thermal units per hour.
 - (8) One (1) AMU C-shop 32 ft. long paint booth, rated at: 6.0 million British thermal units per hour.
 - (9) One (1) AMU paint kitchen, rated at: 0.880 million British thermal units per hour.
 - (10) One (1) AMU plant, rated at: 3.5 million British thermal units per hour.
 - (11) One (1) AMU shipping and receiving, rated at: 7.29 million British thermal units per hour.
 - (12) One (1) AMU SMC, rated at: 3.7 million British thermal units per hour.
 - (13) One (1) AMU SMC warehouse, rated at: 2.2 million British thermal units per hour.
 - (14) One (1) A-shop bake zone #1, rated at: 2.8 million British thermal units per hour.
 - (15) One (1) A-shop bake zone #2, rated at: 2.8 million British thermal units per hour.
 - (16) One (1) B-shop bake oven, rated at: 2.0 million British thermal units per hour.
 - (17) One (1) B-shop dry off, rated at: 2.4 million British thermal units per hour.
 - (18) One (1) C-shop bake zone #1, rated at: 3.2 million British thermal units per hour.
 - (19) One (1) C-shop bake zone #2, rated at: 2.0 million British thermal units per hour.
 - (20) One (1) C-shop dry off, rated at: 3.6 million British thermal units per hour.

- (21) One (1) gas furnace, rated at: 0.120 million British thermal units per hour.
 - (22) One (1) glue oven (BO-glue), rated at: 0.250 million British thermal units per hour.
 - (23) One (1) horizontal air make-up unit located near the maintenance area, rated at: 1.75 million British thermal units per hour.
 - (24) Space heaters in bonding area, rated at: 0.080 million British thermal units per hour, total.
 - (25) Space heaters in shipping area, rated at: 0.116 million British thermal units per hour, total.
- (b) Propane for liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.
 - (c) Combustion source flame safety purging on startup.
 - (d) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
 - (e) The following VOC and HAP storage containers: vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
 - (f) Cleaners and solvents characterized as follows: having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38°C (100°F) or; having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
 - (g) The following equipment related to manufacturing activities not resulting in the emission of HAPS: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
 - (h) Closed loop heating and cooling systems.
 - (i) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
 - (j) Heat exchanger cleaning and repair.
 - (k) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone. [326 IAC 6-3-2]
 - (l) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
 - (m) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
 - (n) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

- (o) On-site fire and emergency response training approved by the department.
- (p) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kiloPascals measured at 38°C).
- (q) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (r) Activities with emissions equal to or less than the following thresholds: Lead (Pb): 0.6 tons per year or 3.29 pounds per day, SO₂: five (5) pounds per hour or twenty-five (25) pounds per day, NO_x: five (5) pounds per hour or twenty-five (25) pounds per day, CO: twenty-five (25) pounds per day, PM: five (5) pounds per hour or twenty-five (25) pounds per day, and VOC: three (3) pounds per hour or fifteen (15) pounds per day:
 - (1) Drilling, Trimming, Sanding of Fiberglass Reinforced Plastic Parts. [326 IAC 6-3-2]
 - (2) Bonding of Fiberglass reinforced plastic parts with a two part non-VOC compound.
 - (3) Fiberglass reinforced plastic parts washer (No VOC emissions - detergent and DI water), exhausted through Stack A.
 - (4) Fiberglass reinforced plastic parts washer (No VOC emissions - detergent and DI water), exhausted through Stack F.

Existing Approvals

Since the issuance of the Part 70 Operating Permit 003-5942-00059 on March 26, 2002, the source has constructed or has been operating under the following approvals as well:

- (a) SSM 003-16292-00059, issued on March 11, 2003;
- (b) SPM 003-16861-00059, issued on March 14, 2003;
- (c) AA 003-16866-00059, issued on May 5, 2003;
- (d) MSM 003-19600-00059, issued on August 19, 2004;
- (e) SPM 003-19660-00059, issued on October 21, 2004;
- (f) MSM 003-20376-00059, issued on January 7, 2005;
- (g) MPM 003-19915-00059, issued on March 4, 2005; and
- (h) SPM 003-21526-00059, issued on August 8, 2006.

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

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this Part 70 Operating Permit Renewal:

- (a) T 003-5942-00059, Conditions D.1.3 and D.2.2, the conditions limiting the HAP emissions from the SMC machines and plastic molding presses to less than a total of ten (10) and twenty-five (25) tons of single and combined HAPs per year, respectively, in order to render the requirements of 326 IAC 2-4.1 not applicable.

Reason not incorporated: Pursuant to 326 IAC 2-4.1-1(b)(2), the SMC machines and plastic molding presses are exempt from the requirements of 326 IAC 2-4.1 because they are specifically regulated by a standard issued pursuant to Section 112(d) of the Clean Air Act (CAA). NESHAP 40 CFR 63, Subpart WWWW (Reinforced Plastic Composites Production) is a standard issued pursuant to Section 112(d) of the CAA. Therefore, the emission limits are not needed.

- (b) T 003-5942-00059, Conditions D.1.4 and D.2.3, the conditions limiting the VOC emissions from the SMC machines and plastic molding presses such that the requirements of 326 IAC 8-1-6 would not apply.

Reason not incorporated: There are no other Article 8 rules that could apply to the SMC operations, and these operations never had a BACT determination under 326 IAC 8-1-6. According to 326 IAC 8-1-6(3)(C), the requirements of 326 IAC 8-1-6 are not applicable to any of the SMC manufacturing operations or the plastic molding presses at this source, because the presses are regulated under 326 IAC 20-56 (40 CFR 63, Subpart WWWW). Therefore, the emission limits are not needed.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

| Stack ID | Operation | Height (feet) | Diameter (feet) | Flow Rate (acfm) | Temperature (°F) |
|----------|-----------|---------------|-----------------|------------------|------------------|
| B | SB-C32 | 55.0 | 3.5 | 30,000 | Ambient |
| C | SB-C32 | 55.0 | 3.5 | 30,000 | 68.0 |
| D | SB-C24 | 55.0 | 3.5 | 30,000 | 68.0 |
| E | SB-C24 | 55.0 | 3.5 | 30,000 | 68.0 |
| G | SB-A | 34.0 | 3.0 | 11,000 | 68.0 |
| I | SB-B | 34.0 | 3.0 | 11,000 | 68.0 |
| J | SB-B | 34.0 | 3.0 | 11,000 | 68.0 |
| K | SB-B | 34.0 | 3.0 | 11,000 | 68.0 |
| M | BLR-A | 25.0 | 3.0 | 7,879 | 400 |
| Q | BO-PH | 20.0 | 1.0 | 350 | 1,400 |

Emission Calculations

See pages 1 through 13 of Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Allen County.

| Pollutant | Status |
|-------------------|------------|
| PM ₁₀ | Attainment |
| PM _{2.5} | Attainment |
| SO ₂ | Attainment |
| NO _x | Attainment |
| 8-hour Ozone | Attainment |
| CO | Attainment |
| Lead | Attainment |

Note: On September 6, 2007 the Indiana Air Pollution Control Board finalized a temporary emergency rule to redesignate Allen County as attainment for the 8-hour ozone standard.

- (a) Allen County has been classified as 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 PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Allen County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Allen 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.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

| Pollutant | tons/year |
|------------------|-----------|
| PM | 553 |
| PM ₁₀ | 554 |
| SO ₂ | 56.0 |
| VOC | 1,102 |
| CO | 34.9 |
| NO _x | 46.3 |

| HAPs | tons/year |
|------------------------------|-----------|
| Styrene | 193 |
| Xylene | 272 |
| MIBK | 65.8 |
| Ethylene Glycol | 62.0 |
| Ethylbenzene | 83.1 |
| Formaldehyde | 9.40 |
| Toluene | 92.8 |
| Cumene | 3.07 |
| Benzene | 0.0003 |
| Diethylene Glycol | 171 |
| Methyl Alcohol (Methanol) | 12.2 |
| Toluene-2,4- diisocyanate | 0.531 |
| Dichlorobenzene | 0.0001 |
| Hexane | 0.198 |
| Lead | 0.001 |
| Cadmium | 0.0003 |
| Chromium | 0.0003 |
| Manganese | 0.0006 |
| Nickel | 0.0003 |
| Arsenic | 0.0004 |
| Beryllium | 0.0003 |
| Mercury | 0.0003 |
| Selenium | 0.002 |
| Total HAPs | 796 |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ and VOC are each 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 all other criteria pollutants, except PM, are less than one hundred (<100) tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of a single HAP is 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 greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Fugitive Emissions

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

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data and the 2004 U.S. EPA Toxics Release Inventory (TRI) database.

| Pollutant | Actual Emissions (tons/year) |
|------------------|---|
| PM | 0 |
| PM ₁₀ | 0 |
| SO ₂ | 0 |
| VOC | 98 |
| CO | 5 |
| NO _x | 6 |
| HAP (Styrene) | 19.25 |
| HAP (Xylene) | 2.82 |

Part 70 Permit Conditions

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

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit

renewal, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

| Process/Emission Unit | Potential To Emit (tons/yr) | | | | | | |
|---------------------------------------|-----------------------------|------------------|-----------------|-------------------------------|-------|-----------------|------------------------------------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | HAPs |
| Boiler BLR-A | 1.04 | 1.04 | 37.1 | 0.402 | 6.14 | 10.4 | 0.138 |
| Boiler BLR-B | 0.526 | 0.526 | 18.7 | 0.202 | 3.09 | 5.26 | 0.069 |
| SB-A | 43.23 | 43.23 | - | 342 | - | - | 216 |
| SB-B | 93.43 | 93.43 | - | 246 | - | - | 155 |
| SB-C24 | 9.46 | 9.46 | - | Less than 66.0 ^(a) | - | - | 32.5 |
| SB-C32 | 12.61 | 12.61 | - | | - | - | 43.3 |
| Machine 1 | 38.72 | 38.72 | - | 92.18 | - | - | 14.5 |
| Machine 2 | 38.72 | 38.72 | - | 92.18 | - | - | 14.5 |
| Machine 3 | 8.63 | 8.63 | - | 18.78 | - | - | 3.22 |
| Nineteen (19) Plastic Forming Presses | - | - | - | 161 | - | - | 161 |
| Insignificant N.G. | 0.582 | 2.328 | 0.184 | 1.69 | 25.7 | 30.6 | 0.578 |
| Total Emissions | 246.95 | 248.69 | 55.98 | Less than 250 ^(b) | 34.93 | 46.3 | Total less than 163 ^(c) |
| Major Source Threshold | 250 | 250 | 250 | 250 | 250 | 250 | Single 10 / Total 25 |

- (a) Limited under the BACT determination pursuant to 326 IAC 8-1-6.
- (b) Limited to ensure that this source is a minor source under 326 IAC 2-2 (PSD).
- (c) This number does not represent an enforceable limit, it reflects the corresponding decrease in HAPs emissions due to the VOC limit.
- (d) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (e) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, fugitive emissions are not counted toward the determination of PSD applicability.

Federal Rule Applicability

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each pollutant-specific emission unit that meets the following criteria:

- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

There are no VOC or HAP add on control devices at any of the emission units at this source. Therefore, the requirements of 40 CFR 64 do not apply for VOC and HAPs.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

| Emission Unit / Pollutant | Control Device Used | Emission Limitation (Y/N) | Uncontrolled PTE (tons/year) | Controlled PTE (tons/year) | Major Source Threshold (tons/year) | CAM Applicable (Y/N) | Large Unit (Y/N) |
|---------------------------|---------------------|---------------------------|------------------------------|----------------------------|------------------------------------|----------------------|------------------|
| SB-A (PM) | Dry filter | Y | 97.2 | 1.46 | 100 | N | N |
| SB-B (PM) | Dry filter | Y | 210 | 3.15 | 100 | Y | N |
| Machines 1, 2 and 3 (PM) | Dust Collector | Y | 194 | 1.94 | 100 | Y | N |

Based on this evaluation, the requirements of 40 CFR Part 64 (CAM) are applicable to SB-B and Machines 1, 2 and 3 for PM upon issuance of the Title V Renewal. A CAM plan will be incorporated into this Part 70 Permit Renewal. See the Compliance Determination and Monitoring Requirements section of this TSD for the specific CAM requirements.

- (b) The one (1) boiler, identified as BLR-A, firing natural gas as primary fuel and diesel fuel as backup, was installed after June 9, 1989 and is rated at 16.7 million British thermal units per hour. Therefore, BLR-A is an affected facility of the NSPS for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12 and 40 CFR Part 60, Subpart Dc).

Non applicable portions of the NSPS will not be included in the permit. This source is subject to the following portions of Subpart Dc:

- (1) 60.40c (a), (b), (c), (d)
- (2) 60.41c
- (3) 60.42c (d), (h)(1), (i), (j)
- (4) 60.44c (g), (h)
- (5) 60.46c (e)
- (6) 60.48c (a), (b), (d), (e)(1) and (11), (f)(1), (g), (i), (j)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart Dc.

Note that the new 40 CFR 60.48c(g) has not been incorporated into the state rules. Therefore, the source must maintain daily records of the fuels combusted by the boiler (BLR-A). See the 326 IAC 12 discussion under the State Rule Applicability section of this TSD.

- (c) This source applies coatings to plastic parts and is a major source of Hazardous Air Pollutants (HAPs). Therefore, this source is subject to the National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63.4480, Subpart PPPP.

Construction of this source commenced prior to 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) spray booth, identified as SB-A, equipped with HVLP spray applicators or with equivalent or better spray applicators and dry filters for overspray control, installed in September 1993 and modified in May 2003, exhausted through Stack G, capacity: 13.9 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (2) One (1) spray booth, identified as SB-B, equipped with air atomization spray guns and dry filters for overspray control, installed in June 1973, exhausted through Stacks I, J, and K, capacity: 10 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (3) One (1) spray booth, identified as SB-C24, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks D and E, capacity: 3 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.
- (4) One (1) spray booth, identified as SB-C32, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through Stacks B and C, capacity: 4 gallons of paint per hour. Under 40 CFR 63, Subpart PPPP, this is considered an existing affected coating operation.

Non applicable portions of the NESHAP will not be included in the permit. This source is subject to the following portions of Subpart PPPP:

- (1) 63.4480
- (2) 63.4481 (a)(1), (2), (3) and (4), (b)
- (3) 63.4482 (a), (b), (e)
- (4) 63.4483 (b), (d)
- (5) 63.4490 (b)(1), (2) and (3), (c)
- (6) 63.4491 (a), (b)
- (7) 63.4492 (a)

- (8) 63.4493 (a)
- (9) 63.4500 (a)(1), (b)
- (10) 63.4501
- (11) 63.4510 (a), (b), (c)(1 through 7), (c)(8)(i and ii), (c)(10 and 11)
- (12) 63.4520 (a)(1 through 6)
- (13) 63.4530 (a), (b), (c)(1 through 3), (d), (e), (f), (g) and (h)
- (14) 63.4531
- (15) 63.4540
- (16) 63.4541
- (17) 63.4542
- (18) 63.4550
- (19) 63.4551
- (20) 63.4552
- (21) 63.4580
- (22) 63.4581
- (23) Tables 2 through 4

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

- (d) This source performs reinforced plastic composites production and is a major source of Hazardous Air Pollutants (HAPs). Therefore, this source is subject to the National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63.5780, Subpart WWWW, with a compliance date of April 21, 2006.

Construction of this source commenced prior to August 2, 2001. Therefore, this is an existing affected source. The affected source consists of all parts of the facility engaged in the following operations: closed molding, sheet molding compound (SMC) manufacturing, mixing, cleaning of equipment used in reinforced plastic composites manufacture, HAP-containing materials storage, and repair operations on parts this source also manufactures. The specific facilities include the following:

- (1) Two (2) SMC manufacturing lines, identified as Machine 1 and Machine 2, reconstructed and relocated in 2003, with a capacity of 12,000 pounds of SMC per hour, each, and one (1) SMC manufacturing line, identified as Machine 3, installed in 2004, with a capacity of 2,670 pounds of SMC per hour. Under 40 CFR 63 (NESHAP), Subpart WWWW, this is considered a sheet molding compound (SMC) manufacturing operation.
- (2) Nineteen (19) injection or compression molding SMC presses (PR-0419, PR-0420, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PRV-0849, PRV-1026, PR-1571, PR-2072 and PR-1073). Under 40 CFR 63 (NESHAP), Subpart

WWWW, each of the presses is considered a sheet molding compound (SMC) closed molding operation.

Pursuant to 40 CFR 63.5810, the Permittee has chosen to comply with the requirements of 40 CFR 63, Subpart WWWW by:

- (1) Meeting the individual organic HAP emission limits for each operation, or
- (2) Using the HAP Emissions Factor Averaging Option, or
- (3) Using the Compliant Materials Option, or
- (4) Using any combination of the above.

The source will not install an add-on control device. The source wants the flexibility to use all of the averaging and compliant materials options within the MACT. The MACT allows the source to switch between compliance options.

Nonapplicable portions of the NESHAP will not be included in the permit. This source is subject to the following portions of Subpart WWWW:

- (1) 63.5780
- (2) 63.5785 (a)
- (3) 63.5790 (a), (b) and (c)
- (4) 63.5795 (a)(1) and (2), (b)
- (5) 63.5797 (a), (b) and (c)
- (6) 63.5800
- (7) 63.5805 (a), (b) and (g)
- (8) 63.5835 (a) and (c)
- (9) 63.5840
- (10) 63.5860 (a)
- (11) 63.5900 (a)(4), (b) and (c)
- (12) 63.5905
- (13) 63.5910 (a), (b), (c)(1) through (c)(5), (d), (g), (h) and (i)
- (14) 63.5915 (a) and (d)
- (15) 63.5920
- (16) 63.5925
- (17) 63.5930
- (18) 63.5935
- (19) Tables 2, 4, 9, 13, 14 and 15

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

- (e) The one (1) boiler, identified as BLR-A, would have been subject to the requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. However, on June 8, 2007, the United States Court of appeals for the District of Columbia Circuit (in NRDC v. EPA, no. 04-1386) vacated in its entirety the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. Additionally, since the state rule at 326 IAC 20-95 incorporated the requirements of the NESHAP 40 CFR 63, Subpart DDDDD by reference, the requirements of 326 IAC 20-95 are no longer effective. Therefore, the requirements of 40 CFR 63, Subpart DDDDD and 326 IAC 20-95 are not included in the permit.
- (f) The requirements of the NSPS, 40 CFR 60.110b, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels are not included in the permit for this source because each of the storage tanks associated with the SMC manufacturing operations have storage capacities less than 19,812.9 gallons (75 cubic meters).
- (g) The requirements of the NSPS, 40 CFR 60.50, Subpart E, Standards of Performance for Incinerators are not included in the permit for this source because the one (1) hook oven (BO-PH) has a charging rate less than fifty (50) tons per day.
- (h) The requirements of the NSPS, 40 CFR 60.1000, Subpart AAAA, Standards of Performance for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999 or for Which Modification or Reconstruction is Commenced After June 6, 2001 are not included in the permit for this source because the one (1) hook oven (BO-PH) was constructed in 1991 and does not combust municipal waste.
- (i) The requirements of the NSPS, 40 CFR 60.2000, Subpart CCCC, Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Modification or Reconstruction Is Commenced on or After June 1, 2001 are not included in the permit for this source because the one (1) hook oven (BO-PH) was constructed in 1991 and is a rack reclamation unit. 40 CFR 60.2020(k) exempts rack reclamation units from the requirements of this Subpart.
- (j) The requirements of the NSPS, 40 CFR 60.2880, Subpart EEEE, Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 2006 are not included in the permit for this source because the one (1) hook oven (BO-PH) was constructed in 1991 and is not a municipal waste combustion unit nor an institutional incineration unit.
- (k) The requirements of 40 CFR 63.1200, Subpart EEE National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors, are not included in the permit because the one (1) hook oven (BO-PH) does not combust hazardous waste as defined in 40 CFR 63.1201 or 40 CFR 261.3.

State Rule Applicability - Entire Source

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

The unrestricted potential emissions of CO, SO₂ and NO_x are each less than two hundred fifty (250) tons per year. The PM, PM₁₀ and VOC emissions from the source are each limited to less than two hundred fifty (250) 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 order to render requirements of 326 IAC 2-2 not applicable:

- (a) The total VOC emissions from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) and the nineteen (19) SMC presses (PR-0419, PR-0420, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PRV-0849, PRV-1026, PR-1571, PR-2072 and PR-1073), shall be limited to less than a total of 246.1 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

VOC emissions from these operations shall be calculated as follows:

- (1) VOC emissions from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32):

$$\text{VOC emissions (tons)} = \text{VOC input (tons)}$$

- (2) VOC emissions from the SMC manufacturing operations at three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3):

$$\text{VOC emissions (tons)} = \text{VOC input (tons)} \times 0.0059 \text{ (tons VOC emitted / ton VOC input)}$$

The Permittee must maintain records of the amount of VOC input to the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3).

- (3) VOC emissions from the other operations at the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3):

$$\begin{aligned} \text{VOC emissions (tons)} &= \text{Resin Storage (0.059 lbs/ton} \times \text{SMC produced (tons))} + \text{Mixing Station (0.19 lbs/ton} \times \text{SMC produced (tons))} + \text{SMC Holding Area (0.0018 lbs/ton} \times \text{SMC produced (tons))} \times (1 \text{ ton/2000lbs}) \\ &= (0.059 + 0.19 + 0.0018) \text{ lbs/ton} \times \text{SMC produced (tons)} \times (1 \text{ ton/2000lbs}) \\ &= 0.2508 \text{ lbs/ton} \times \text{SMC produced (tons)} \times (1 \text{ ton/2000lbs}) \\ &= 0.0001254 \times \text{SMC produced (tons)} \end{aligned}$$

The Permittee must maintain records of the amount of SMC produced in the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3).

- (4) VOC emissions from the SMC presses:

$$\text{VOC emissions (tons)} = \text{SMC input (tons)} \times \text{weight \% VOC} \times 0.03$$

The Permittee must maintain records of the amount of SMC used in the presses and the VOC content (weight percent) of VOC in the SMC.

The VOC emissions from the SMC presses shall not exceed 0.03 pounds of VOC emitted per pound of VOC contained in the SMC.

- (b) The PM and PM₁₀ emissions from SB-A shall be limited to less than 9.87 pounds per hour, equivalent to 43.23 tons per year.
- (c) The PM and PM₁₀ emissions from SB-B shall be limited to less than 21.33 pounds per hour, equivalent to 93.43 tons per year.
- (d) The PM and PM₁₀ emissions from SB-C24 shall be limited to less than 2.16 pounds per hour, equivalent to 9.46 tons per year.
- (e) The PM and PM₁₀ emissions from SB-C32 shall be limited to less than 2.88 pounds per hour, equivalent to 12.61 tons per year.
- (f) The PM and PM₁₀ emissions from Machine 1 shall be limited to less than 8.84 pounds per hour, equivalent to 38.72 tons per year.
- (g) The PM and PM₁₀ emissions from Machine 2 shall be limited to less than 8.84 pounds per hour, equivalent to 38.72 tons per year.
- (h) The PM and PM₁₀ emissions from Machine 3 shall be limited to less than 1.97 pounds per hour, equivalent to 8.63 tons per year.

Compliance with these limits will ensure that the requirements of 326 IAC 2-2 (PSD) are not applicable.

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

The operation of this high-pressure fiberglass-reinforced thermoset manufacturing and painting source will emit greater than ten (10) tons per year of a single HAP and greater than twenty-five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 would apply to the plastic coating operations, and the SMC production operations. However, pursuant to 326 IAC 2-4.1-1 (b)(2), because this source is specifically regulated by NESHAP 40 CFR 63, Subparts PPPP (Plastic Parts and Products Surface Coating) and WWWW (Reinforced Plastic Composites Production), which were issued pursuant to Section 112(d) of the CAA, this source is exempt from the requirements of 326 IAC 2-4.1.

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 under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. Since the VOC emissions from this source are limited to less than two hundred fifty (250) tons per year, in accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted triennially by July 1 beginning in 2004 and every 3 years after. Therefore, the next emission statement for this source must be submitted by July 1, 2007. 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 6-2-3 (Emission limitations for facilities specified in 326 IAC 6-2-1(c))

The one (1) boiler, identified as BLR-B, installed in 1974, using natural gas as a primary fuel and diesel fuel as backup fuel, rated at 8.4 million British thermal units per hour, must comply with the particulate emission limitation of 326 IAC 6-2-3. This limitation is based on the following equation:

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

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBTU) heat input

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

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 MMBtu/hr heat input. The value 0.8 shall be used for Q greater than 1,000 MMBtu/hr heat input.

h = Stack height in feet.

For the one (1) boiler, identified as BLR-B:

$$Pt = 50 \times 0.67 \times 9.0 / 76.5 \times (8.4)^{0.75} \times 1^{0.25} = 0.799 \text{ lb/MMBTu}$$

Pursuant to 326 IAC 6-2-3(e), particulate emissions for this facility shall in no case exceed 0.6 pound per million British thermal units heat input. Therefore, Pt = 0.6 lb/MMBTu

Based on Appendix A, the worst case particulate emission rate from BLR-B is 0.526 tons per

year.

$$0.526 \text{ tons/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.120 \text{ lb/hr}$$
$$(0.120 \text{ lb/hr} / 8.4 \text{ MMBtu/hr}) = 0.014 \text{ lb PM} / \text{MMBtu}$$

Therefore, the one (1) boiler (BLR-B) can comply with this rule.

326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(d))

The one (1) boiler, identified as BLR-A, installed in 2000, using natural gas as primary fuel and diesel fuel as backup, rated at 16.7 million British thermal units per hour, must comply with the particulate emission limitation of 326 IAC 6-2-4. This limitation is based on the following equation:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/mmBtu) heat input

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

The total heat input capacity for the source is 25.1 million British thermal units per hour.

$$Pt = 1.09/(25.1)^{0.26} = 0.472 \text{ lb/mmBtu heat input}$$

Based on Appendix A, the worst case particulate emission rate from BLR-A is 1.04 tons per year:

$$1.04 \text{ ton/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.237 \text{ lb/hr}$$
$$(0.237 \text{ lb/hr} / 25.1 \text{ mmBtu/hr}) = 0.009 \text{ lb PM} / \text{MMBtu}$$

Therefore, the one (1) boiler (BLR-A) can comply with this rule.

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

- (a) Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating processes (SB-A, SB-B, SB-C24 and SB-C32) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) None of the nineteen (19) injection or compression molding SMC presses are subject to the requirements of 326 IAC 6-3-2. These closed molding presses do not produce particulate emissions.
- (c) The three (3) SMC manufacturing lines exhaust to one stack (SV-01). Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the three (3) SMC manufacturing lines, identified as Machine 1, Machine 2 and Machine 3, shall not exceed 23.3 pounds per hour when operating at a total process weight rate of 26,670 pounds per hour.

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

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

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

According to Appendix A, the potential emissions after control are 0.442 pounds per hour. Therefore, the (3) SMC manufacturing lines can comply with this rule. The dust collection system shall be in operation and control emissions from the (3) SMC manufacturing lines at all times that any of the lines are in operation.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

- (a) The one (1) boiler (BLR-A) has the potential to emit SO₂ greater than twenty-five (25) tons per year when burning diesel fuel, therefore, BLR-A is subject to the requirements of 326 IAC 7-1.1-2.

This rule requires levels of sulfur dioxide emissions from the combustion of distillate oil not to exceed 0.5 pounds per million British thermal units of heat input (the equivalent of 0.5% sulfur content at a higher heating value of 0.140 MMBtu/gal and a maximum heat input rate of 16.7 million British thermal units per hour).

- (b) The potential SO₂ emissions from the one (1) boiler (BLR-B) are less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 7-1.1 are not applicable to BLR-B.

326 IAC 7-2-1 (Sulfur Dioxide Compliance: reporting and methods to determine compliance)

The one (1) boiler (BLR-A) has the potential to emit SO₂ greater than twenty-five (25) tons per year when burning diesel fuel, therefore, BLR-A is subject to the requirements of 326 IAC 7-2-1.

For the one (1) boiler (BLR-A), reports of calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate shall be provided upon request to the Office of Air Quality.

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

- (a) There were no previous BACT determinations under the provisions of 326 IAC 8-1-6 for any of the SMC manufacturing operations or any of the SMC closed molding presses. According to 326 IAC 8-1-6(3)(C), the requirements of 326 IAC 8-1-6 are not applicable to any of the SMC manufacturing operations or any of the SMC closed molding presses, because these operations are regulated under 326 IAC 20-56 (40 CFR 63, Subpart WWWW).
- (b) Pursuant to CP 003-3105-00059, issued on September 7, 1993, Best Available Control Technology (BACT) for the one (1) prime spray booth, identified as SB-A, has been determined to be:
- (1) The method of application shall be performed with high volume, low pressure (HVLP) spray applicators;
 - (2) The use of lower VOC paints (less than 3.5 lb VOC per gallon of coating excluding water).

- (c) Pursuant to T 003-5942-00059, issued on March 26, 2002, BACT for the two (2) spray booths, identified as SB-C24 and SB-C32 has been determined to be:
- (a) The VOC input delivered to the applicators, including cleanup solvents, shall be limited to less than a total of sixty-six (66) tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
 - (b) The method of application at the spray booths shall be done with electrostatic applicators;
 - (c) The use of low (25-40%) and medium (41-50%) solids content coatings, and
 - (d) The following management and work practices shall apply:
 - (1) Operator training course.
 - (2) Spray gun cleaning.
 - (3) The cleanup solvent containers used to transport solvent from drums to work stations shall be closed containers having soft gasketed closures.
 - (4) The application equipment operators shall be instructed and trained on the methods and practices utilized to minimize spillage on the floor and over application.
 - (5) Storage containers used to store VOC and/or HAPS containing materials shall be kept covered when not in use.
 - (6) Cleanup solvents will be reused in the process as much as possible to reduce hazardous waste and the related impact on the environment.
 - (d) The requirements of 326 IAC 8-1-6 are not applicable to the one (1) spray booth, identified as SB-B, because this booth was installed in June 1973, prior to the applicability date.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

The requirements of 326 IAC 8-9 are not applicable because this source is not located in Clark, Floyd, Lake, or Porter County.

326 IAC 12 (New Source Performance Standards)

Pursuant to 326 IAC 1-1-3, unless otherwise indicated, any reference to a provision of the Code of Federal Regulations (CFR) shall mean the July 1, 2005, edition. 40 CFR 60, Subpart Dc was revised on February 27, 2006. Therefore, 326 IAC 12, references the previous version of 40 CFR 60, Subpart Dc, and this source is subject to both versions of the rule.

The new 40 CFR 60.48c(g) has not been incorporated into the state rules. Therefore, the source must maintain daily records of the fuels combusted by the boiler (BLR-A).

The one boiler (BLR-A) is required to comply with the requirements of the new version of 40 CFR 60.40c, Subpart Dc, as described in the "Federal Rule Applicability" section of this TSD.

State Rule Applicability – Insignificant Activities

326 IAC 4-2-2 (Incinerators)

The one (1) hook oven, identified as BO-PH, is subject to the requirements of 326 IAC 4-2-2 (Incinerators) because the oven cleans the paint hooks by burning off the coating buildup.

Pursuant to 326 IAC 4-2-2(a), the one (1) hook oven, identified as BO-PH, with a solid waste capacity less than 200 pounds per hour, shall:

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

The operation of this incinerator shall be terminated immediately upon noncompliance with any of the above mentioned requirements.

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the insignificant brazing, cutting, soldering, welding, trimming, drilling, sanding or buffing shall not exceed the allowable particulate emission rate based on the following equation:

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

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

Compliance Determination and Monitoring Requirements

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

D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

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

The four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the three (3) SMC manufacturing lines (Machine 1, Machine 2 and Machine 3) and the nineteen (19) SMC presses (PR-0419, PR-0420, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PRV-0849, PRV-1026, PR-1571, PR-2072 and PR-1073) have applicable compliance determination conditions as specified below:

Compliance with Condition D.2.1 shall be demonstrated within thirty (30) days of the end of each month. This shall be based on the total volatile organic compound emitted for the previous month, added to the previous 11 months total VOC emitted so as to arrive at VOC emissions for the most recent twelve (12) consecutive month period.

The VOC emissions for a month shall be calculated by using the following equation:

$$E = U_{PB} + (V_{SMC} \times 0.0059) + (P_{SMC} \times 0.0001254) + (U_{SMC} \times 0.03)$$

Where:

E = Total VOC emissions (tons)

U_{PB} = Total VOC input to the spray booths (SB-A, SB-B, SB-C24, SB-C32) (tons)

V_{SMC} = Total VOC input to the three (3) SMC Machines (tons)

P_{SMC} = Total SMC produced at the three (3) SMC Machines (tons)

U_{SMC} = Total VOC input to the nineteen (19) SMC presses (tons)

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

| EU or Control | Parameter | Frequency | Range | Excursions and Exceedances |
|--|---------------------|--------------------------------|-----------------|----------------------------|
| BLR-A | Visible Emissions | Daily when burning diesel fuel | Normal-Abnormal | Response Steps |
| Dry Filters for Surface Coating booths | Inspections | Daily/Weekly/Monthly | Normal-Abnormal | Response Steps |
| Machine 1, Machine 2 and Machine 3 | Visible Emissions | Daily | Normal-Abnormal | Response Steps |
| Machine 1, Machine 2 and Machine 3 | Water Pressure Drop | Daily | 1 to 4 inches | Response Steps |
| | Visible Emissions | | Normal-Abnormal | |

These monitoring conditions are necessary because the control devices for the surface coating booths and the SMC machines must operate properly to ensure compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), 326 IAC 2-7 (Part 70), 40 CFR 64 (CAM) and 326 IAC 2-2 (PSD).

Recommendation

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

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

An application for the purposes of this review was received on June 26, 2006.

Conclusion

The operation of this high-pressure fiberglass-reinforced thermoset manufacturing and painting source shall be subject to the conditions of the attached **Part 70 Operating Permit Renewal No. T 003-23272-00059**.

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

**Company Name: Meridian Automotive Systems
Address, City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

| Emission Factor in lb/MMCF | Pollutant | | | | | |
|----------------------------|-----------|-------|-------|-------------|------|------|
| | PM* | PM10* | SO2 | NOx | VOC | CO |
| | 1.90 | 7.60 | 0.600 | 100 | 5.50 | 84.0 |
| | | | | **see below | | |

*PM emission factor is filterable PM only. PM-10 emission factor is filterable and condensable PM-10 combined.

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

| Equipment | Heat Input Capacity MMBtu/hr | Potential Throughput MMCF/yr | Potential Emission in tons/yr | | | | | |
|-----------|---------------------------------|---------------------------------|-------------------------------|-------|-------|------|-------|------|
| | | | PM* | PM10* | SO2 | NOx | VOC | CO |
| BLR-A | 16.70 | 146.29 | 0.139 | 0.556 | 0.044 | 7.31 | 0.402 | 6.14 |
| BLR-B | 8.40 | 73.58 | 0.070 | 0.280 | 0.022 | 3.68 | 0.202 | 3.09 |
| | | | | | | | | |

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See page 2 for HAPs emissions calculations.

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Meridian Automotive Systems
 Address, City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
 Permit Number: T 003-23272-00059
 Reviewer: Edward A. Longenberger
 Date: July 31, 2007

BLR-A

HAPs - Organics

| Emission Factor in lb/MMcf | Benzene 0.0021 | Dichlorobenzene 0.0012 | Formaldehyde 0.0750 | Hexane 1.8000 | Toluene 0.0034 |
|-------------------------------|-------------------|---------------------------|------------------------|------------------|-------------------|
| Potential Emission in tons/yr | 0.0002 | 0.0001 | 0.0055 | 0.1317 | 0.0002 |

HAPs - Metals

| Emission Factor in lb/MMcf | Lead 0.0005 | Cadmium 0.0011 | Chromium 0.0014 | Manganese 0.0004 | Nickel 0.0021 | Total HAPs |
|-------------------------------|----------------|-------------------|--------------------|---------------------|------------------|---------------|
| Potential Emission in tons/yr | 0.0000 | 0.0001 | 0.0001 | 0.0000 | 0.0002 | 0.138 |

BLR-B

HAPs - Organics

| Emission Factor in lb/MMcf | Benzene 0.0021 | Dichlorobenzene 0.0012 | Formaldehyde 0.0750 | Hexane 1.8000 | Toluene 0.0034 |
|-------------------------------|-------------------|---------------------------|------------------------|------------------|-------------------|
| Potential Emission in tons/yr | 0.0001 | 0.0000 | 0.0028 | 0.0662 | 0.0001 |

HAPs - Metals

| Emission Factor in lb/MMcf | Lead 0.0005 | Cadmium 0.0011 | Chromium 0.0014 | Manganese 0.0004 | Nickel 0.0021 | Total HAPs |
|-------------------------------|----------------|-------------------|--------------------|---------------------|------------------|---------------|
| Potential Emission in tons/yr | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.069 |

METHODOLOGY

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

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

Company Name: Meridian Automotive Systems
Address, City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007

BLR-A

Heat Input Capacity MMBtu/hr 16.7

Potential Throughput kgals/year 1045

S = Weight % Sulfur 0.500

| | Pollutant | | | | |
|-------------------------------|-------------|-------------------------|-------------|--------------|------------|
| Emission Factor in lb/kgal | PM* 2.00 | SO2 71.0 (142.0S) | NOx 20.0 | VOC 0.340 | CO 5.00 |
| Potential Emission in tons/yr | 1.04 | 37.1 | 10.4 | 0.178 | 2.61 |

BLR-B

Heat Input Capacity MMBtu/hr 8.4

Potential Throughput kgals/year 526

S = Weight % Sulfur 0.500

| | Pollutant | | | | |
|-------------------------------|-------------|-------------------------|-------------|--------------|------------|
| Emission Factor in lb/kgal | PM* 2.00 | SO2 71.0 (142.0S) | NOx 20.0 | VOC 0.340 | CO 5.00 |
| Potential Emission in tons/yr | 0.526 | 18.7 | 5.26 | 0.089 | 1.31 |

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM t
 Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)
 *PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
 Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
 See page 4 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil
HAPs Emissions

Company Name: Meridian Automotive Systems
Address, City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007

| BLR-A | HAPs - Metals | | | | |
|-------------------------------|---------------------|-----------------------|---------------------|----------------------|------------------|
| Emission Factor in lb/mmBtu | Arsenic 0.000004 | Beryllium 0.000003 | Cadmium 0.000003 | Chromium 0.000003 | Lead 0.000009 |
| Potential Emission in tons/yr | 0.0003 | 0.0002 | 0.0002 | 0.0002 | 0.0007 |

| | HAPs - Metals (continued) | | | | |
|-------------------------------|---------------------------|-----------------------|--------------------|---------------------|---------------|
| Emission Factor in lb/mmBtu | Mercury 0.000003 | Manganese 0.000006 | Nickel 0.000003 | Selenium 0.00002 | Total HAPs |
| Potential Emission in tons/yr | 0.0002 | 0.0004 | 0.0002 | 0.0011 | 0.0036 |

| BLR-B | HAPs - Metals | | | | |
|-------------------------------|---------------------|-----------------------|---------------------|----------------------|------------------|
| Emission Factor in lb/mmBtu | Arsenic 0.000004 | Beryllium 0.000003 | Cadmium 0.000003 | Chromium 0.000003 | Lead 0.000009 |
| Potential Emission in tons/yr | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0003 |

| | HAPs - Metals (continued) | | | | |
|-------------------------------|---------------------------|-----------------------|--------------------|---------------------|---------------|
| Emission Factor in lb/mmBtu | Mercury 0.000003 | Manganese 0.000006 | Nickel 0.000003 | Selenium 0.00002 | Total HAPs |
| Potential Emission in tons/yr | 0.0001 | 0.0002 | 0.0001 | 0.0006 | 0.0018 |

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

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

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

| Material | Density (lbs/gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (units/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC (pounds per hour) | Potential VOC (pounds per day) | Potential VOC (tons per year) | Particulate Potential (tons/yr) | lbs VOC/gal solids | Transfer Efficiency |
|---------------------|-------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|----------------------|---|----------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------|---------------------|
| SB-A | | | | | | | | | | | | | | | | |
| 8000 SW BC-17 | 10.08 | 49.45% | 0.0% | 49.5% | 0.0% | 34.04% | 13.90 | 1.00 | 4.98 | 4.98 | 69.29 | 1662.85 | 303.47 | 77.56 | 14.64 | 75% |
| 8015 SW G58AR1 | 9.16 | 55.38% | 0.0% | 55.4% | 0.0% | 30.40% | 13.90 | 1.00 | 5.07 | 5.07 | 70.51 | 1692.29 | 308.84 | 62.21 | 16.69 | 75% |
| 8023 Red Spot Ebony | 8.41 | 55.46% | 0.0% | 55.5% | 0.0% | 35.49% | 13.90 | 1.00 | 4.66 | 4.66 | 64.83 | 1555.97 | 283.96 | 57.01 | 13.14 | 75% |
| 8025 Cooks Beige | 10.27 | 46.42% | 0.0% | 46.4% | 0.0% | 32.80% | 13.90 | 1.00 | 4.77 | 4.77 | 66.27 | 1590.38 | 290.24 | 83.75 | 14.53 | 75% |
| 8050 SO Storm Gray | 8.16 | 60.95% | 0.0% | 61.0% | 0.0% | 27.76% | 13.90 | 1.00 | 4.97 | 4.97 | 69.13 | 1659.17 | 302.80 | 48.50 | 17.92 | 75% |
| 8064 SW Med Mist | 9.26 | 44.71% | 0.0% | 44.7% | 0.0% | 42.40% | 13.90 | 1.00 | 4.14 | 4.14 | 57.55 | 1381.15 | 252.06 | 77.93 | 9.76 | 75% |
| 8065 SW Camel Tan | 9.46 | 44.10% | 0.0% | 44.1% | 0.0% | 42.40% | 13.90 | 1.00 | 4.17 | 4.17 | 57.99 | 1391.73 | 253.99 | 80.49 | 9.84 | 75% |
| 8066 Dark Slate | 8.86 | 51.25% | 0.0% | 51.3% | 0.0% | 36.80% | 13.90 | 1.00 | 4.54 | 4.54 | 63.12 | 1514.79 | 276.45 | 65.74 | 12.34 | 75% |
| 8067 SW Med Fawn | 10.06 | 40.83% | 0.0% | 40.8% | 0.0% | 43.20% | 13.90 | 1.00 | 4.11 | 4.11 | 57.09 | 1370.26 | 250.07 | 90.60 | 9.51 | 75% |
| 8116 SW AC-601 | 9.38 | 35.52% | 0.0% | 35.5% | 0.0% | 52.00% | 13.90 | 1.00 | 3.33 | 3.33 | 46.31 | 1111.48 | 202.85 | 92.06 | 6.41 | 75% |
| 8118 Akzo 40431CN | 9.17 | 58.81% | 0.0% | 58.8% | 0.0% | 36.80% | 13.90 | 1.00 | 5.39 | 5.39 | 74.96 | 1799.06 | 328.33 | 57.49 | 14.65 | 75% |
| 8119 RS Graphite | 8.17 | 60.42% | 0.0% | 60.4% | 0.0% | 31.36% | 13.90 | 1.00 | 4.94 | 4.94 | 68.61 | 1646.75 | 300.53 | 49.22 | 15.74 | 75% |
| 8120 SO BP-9471 | 9.13 | 41.55% | 0.0% | 41.6% | 0.0% | 47.12% | 13.90 | 1.00 | 3.79 | 3.79 | 52.73 | 1265.52 | 230.96 | 81.22 | 8.05 | 75% |
| 8159 Akzo 224C | 10.02 | 55.99% | 0.0% | 56.0% | 0.0% | 43.04% | 13.90 | 1.00 | 5.61 | 5.61 | 77.98 | 1871.56 | 341.56 | 67.12 | 13.03 | 75% |
| 8616 SW Gray | 11.20 | 42.97% | 0.0% | 43.0% | 0.0% | 35.05% | 13.90 | 1.00 | 4.81 | 4.81 | 66.90 | 1605.50 | 293.00 | 97.22 | 13.73 | 75% |

| | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|----|---------------------|--------|-------------|-------------|------------|--------------|--|--|--|
| Total Emissions = Worst Case Coating | | | | | | | | PM | Control Efficiency | 98.50% | | | | | | | |
| | | | | | | | | | Uncontrolled | | 78.0 | 1872 | 342 | 97.2 | | | |
| | | | | | | | | | Controlled | | 78.0 | 1872 | 342 | 1.458 | | | |

| Material | Density (lbs/gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (units/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC (pounds per hour) | Potential VOC (pounds per day) | Potential VOC (tons per year) | Particulate Potential (tons/yr) | lbs VOC/gal solids | Transfer Efficiency |
|---------------------|-------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|----------------------|---|----------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------|---------------------|
| SB-B | | | | | | | | | | | | | | | | |
| 8000 SW BC-17 | 10.08 | 49.45% | 0.0% | 49.5% | 0.0% | 34.04% | 10.00 | 1.00 | 4.98 | 4.98 | 49.85 | 1196.29 | 218.32 | 167.39 | 14.64 | 25% |
| 8015 SW G58AR1 | 9.16 | 55.38% | 0.0% | 55.4% | 0.0% | 30.40% | 10.00 | 1.00 | 5.07 | 5.07 | 50.73 | 1217.47 | 222.19 | 134.26 | 16.69 | 25% |
| 8023 Red Spot Ebony | 8.41 | 55.46% | 0.0% | 55.5% | 0.0% | 35.49% | 10.00 | 1.00 | 4.66 | 4.66 | 46.64 | 1119.40 | 204.29 | 123.05 | 13.14 | 25% |
| 8025 Cooks Beige | 10.27 | 46.42% | 0.0% | 46.4% | 0.0% | 32.80% | 10.00 | 1.00 | 4.77 | 4.77 | 47.67 | 1144.16 | 208.81 | 180.76 | 14.53 | 25% |
| 8050 SO Storm Gray | 8.16 | 60.95% | 0.0% | 61.0% | 0.0% | 27.76% | 10.00 | 1.00 | 4.97 | 4.97 | 49.74 | 1193.64 | 217.84 | 104.68 | 17.92 | 25% |
| 8064 SW Med Mist | 9.26 | 44.71% | 0.0% | 44.7% | 0.0% | 42.40% | 10.00 | 1.00 | 4.14 | 4.14 | 41.40 | 993.64 | 181.34 | 168.19 | 9.76 | 25% |
| 8065 SW Camel Tan | 9.46 | 44.10% | 0.0% | 44.1% | 0.0% | 42.40% | 10.00 | 1.00 | 4.17 | 4.17 | 41.72 | 1001.25 | 182.73 | 173.72 | 9.84 | 25% |
| 8066 Dark Slate | 8.86 | 51.25% | 0.0% | 51.3% | 0.0% | 36.80% | 10.00 | 1.00 | 4.54 | 4.54 | 45.41 | 1089.78 | 198.88 | 141.89 | 12.34 | 25% |
| 8067 SW Med Fawn | 10.06 | 40.83% | 0.0% | 40.8% | 0.0% | 43.20% | 10.00 | 1.00 | 4.11 | 4.11 | 41.07 | 985.80 | 179.91 | 195.54 | 9.51 | 25% |
| 8116 SW AC-601 | 9.38 | 35.52% | 0.0% | 35.5% | 0.0% | 52.00% | 10.00 | 1.00 | 3.33 | 3.33 | 33.32 | 799.63 | 145.93 | 198.68 | 6.41 | 25% |
| 8118 Akzo 40431CN | 9.17 | 58.81% | 0.0% | 58.8% | 0.0% | 36.80% | 10.00 | 1.00 | 5.39 | 5.39 | 53.93 | 1294.29 | 236.21 | 124.08 | 14.65 | 25% |
| 8119 RS Graphite | 8.17 | 60.42% | 0.0% | 60.4% | 0.0% | 31.36% | 10.00 | 1.00 | 4.94 | 4.94 | 49.36 | 1184.72 | 216.21 | 106.23 | 15.74 | 25% |
| 8120 SO BP-9471 | 9.13 | 41.55% | 0.0% | 41.6% | 0.0% | 47.12% | 10.00 | 1.00 | 3.79 | 3.79 | 37.94 | 910.44 | 166.16 | 175.30 | 8.05 | 25% |
| 8159 Akzo 224C | 10.02 | 55.99% | 0.0% | 56.0% | 0.0% | 43.04% | 10.00 | 1.00 | 5.61 | 5.61 | 56.10 | 1346.45 | 245.73 | 144.86 | 13.03 | 25% |
| 8616 SW Gray | 11.20 | 42.97% | 0.0% | 43.0% | 0.0% | 35.05% | 10.00 | 1.00 | 4.81 | 4.81 | 48.13 | 1155.03 | 210.79 | 209.82 | 13.73 | 25% |

| | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|----|---------------------|--------|-------------|-------------|------------|-------------|--|--|
| Total Emissions = Worst Case Coating | | | | | | | | PM | Control Efficiency | 98.50% | | | | | | |
| | | | | | | | | | Uncontrolled | | 56.1 | 1346 | 246 | 210 | | |
| | | | | | | | | | Controlled | | 56.1 | 1346 | 246 | 3.15 | | |

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

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

| Material | Density (lbs/gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (units/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC (pounds per hour) | Potential VOC (pounds per day) | Potential VOC (tons per year) | Particulate Potential (tons/yr) | lbs VOC/gal solids | Transfer Efficiency |
|---|-------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|----------------------|---|----------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------|---------------------|
| SB-C24 | | | | | | | | | | | | | | | | |
| 8062 Deep Amethyst | 8.00 | 60.42% | 0.0% | 60.4% | 0.0% | 30.36% | 3.00 | 1.00 | 4.83 | 4.83 | 14.50 | 348.02 | 63.51 | 12.48 | 15.92 | 70% |
| 8073 Deep Slate | 7.90 | 59.28% | 0.0% | 59.3% | 0.0% | 33.31% | 3.00 | 1.00 | 4.68 | 4.68 | 14.05 | 337.18 | 61.54 | 12.68 | 14.06 | 70% |
| 8076 Strawberry | 8.34 | 51.88% | 0.0% | 51.9% | 0.0% | 38.88% | 3.00 | 1.00 | 4.33 | 4.33 | 12.98 | 311.53 | 56.85 | 15.82 | 11.13 | 70% |
| 8078 Poppy Red | 7.98 | 54.93% | 0.0% | 54.9% | 0.0% | 36.87% | 3.00 | 1.00 | 4.38 | 4.38 | 13.15 | 315.61 | 57.60 | 14.18 | 11.89 | 70% |
| 8079 Candy Apple | 8.25 | 55.53% | 0.0% | 55.5% | 0.0% | 35.46% | 3.00 | 1.00 | 4.58 | 4.58 | 13.74 | 329.85 | 60.20 | 14.46 | 12.92 | 70% |
| 8097 Clear | 8.25 | 44.68% | 0.0% | 44.7% | 0.0% | 48.52% | 3.00 | 1.00 | 3.69 | 3.69 | 11.06 | 265.40 | 48.44 | 17.99 | 7.60 | 70% |
| 8107 Shale Green | 8.01 | 58.49% | 0.0% | 58.5% | 0.0% | 33.53% | 3.00 | 1.00 | 4.69 | 4.69 | 14.06 | 337.32 | 61.56 | 13.11 | 13.97 | 70% |
| 8109 Deep Hunter Green | 8.06 | 52.75% | 0.0% | 52.8% | 0.0% | 39.44% | 3.00 | 1.00 | 4.25 | 4.25 | 12.75 | 306.12 | 55.87 | 15.01 | 10.78 | 70% |
| 8112 Bright Silver Met | 8.11 | 61.08% | 0.0% | 61.1% | 0.0% | 32.20% | 3.00 | 1.00 | 4.95 | 4.95 | 14.86 | 356.66 | 65.09 | 12.44 | 15.38 | 70% |
| 8113 Patriot Blue PC | 8.01 | 56.93% | 0.0% | 56.9% | 0.0% | 36.15% | 3.00 | 1.00 | 4.56 | 4.56 | 13.68 | 328.33 | 59.92 | 13.60 | 12.61 | 70% |
| 8114 Aquamarine Met | 7.95 | 64.06% | 0.0% | 64.1% | 0.0% | 28.38% | 3.00 | 1.00 | 5.09 | 5.09 | 15.28 | 366.68 | 66.92 | 11.26 | 17.94 | 70% |
| 8117 Inferno Red PC | 8.15 | 56.63% | 0.0% | 56.6% | 0.0% | 34.02% | 3.00 | 1.00 | 4.62 | 4.62 | 13.85 | 332.30 | 60.65 | 13.93 | 13.57 | 70% |
| 8172 Ice Silver | 8.25 | 64.71% | 0.0% | 64.7% | 0.0% | 27.82% | 3.00 | 1.00 | 5.34 | 5.34 | 16.02 | 384.38 | 70.15 | 11.48 | 19.19 | 70% |
| 8174 Bright White | 9.72 | 44.39% | 0.0% | 44.4% | 0.0% | 37.64% | 3.00 | 1.00 | 4.31 | 4.31 | 12.94 | 310.66 | 56.70 | 21.31 | 11.46 | 70% |
| 8175 Radiant Fire Red | 8.01 | 53.26% | 0.0% | 53.3% | 0.0% | 37.66% | 3.00 | 1.00 | 4.27 | 4.27 | 12.80 | 307.16 | 56.06 | 14.76 | 11.33 | 70% |
| 8176 Primal Red | 8.21 | 54.91% | 0.0% | 54.9% | 0.0% | 36.07% | 3.00 | 1.00 | 4.51 | 4.51 | 13.52 | 324.58 | 59.24 | 14.59 | 12.50 | 70% |
| 8178 Cocoon White | 8.71 | 50.37% | 0.0% | 50.4% | 0.0% | 39.54% | 3.00 | 1.00 | 4.39 | 4.39 | 13.16 | 315.88 | 57.65 | 17.04 | 11.10 | 70% |
| 8181 Black | 8.10 | 54.54% | 0.0% | 54.5% | 0.0% | 38.28% | 3.00 | 1.00 | 4.42 | 4.42 | 13.25 | 318.08 | 58.05 | 14.52 | 11.54 | 70% |
| 8184 Island Teal | 8.20 | 54.95% | 0.0% | 55.0% | 0.0% | 36.78% | 3.00 | 1.00 | 4.51 | 4.51 | 13.52 | 324.45 | 59.21 | 14.56 | 12.25 | 70% |
| 8186 Golden White | 8.02 | 51.73% | 0.0% | 51.7% | 0.0% | 41.23% | 3.00 | 1.00 | 4.15 | 4.15 | 12.45 | 298.71 | 54.51 | 15.26 | 10.06 | 70% |
| 8188 Champagne | 8.62 | 56.53% | 0.0% | 56.5% | 0.0% | 35.08% | 3.00 | 1.00 | 4.87 | 4.87 | 14.62 | 350.85 | 64.03 | 14.77 | 13.89 | 70% |
| 8189 Cranberry | 8.19 | 52.34% | 0.0% | 52.3% | 0.0% | 39.56% | 3.00 | 1.00 | 4.29 | 4.29 | 12.86 | 308.64 | 56.33 | 15.39 | 10.84 | 70% |
| 8191 Slate Blue | 8.17 | 61.68% | 0.0% | 61.7% | 0.0% | 31.49% | 3.00 | 1.00 | 5.04 | 5.04 | 15.12 | 362.83 | 66.22 | 12.34 | 16.00 | 70% |
| 8192 Modern Blue | 8.02 | 57.07% | 0.0% | 57.1% | 0.0% | 35.30% | 3.00 | 1.00 | 4.58 | 4.58 | 13.73 | 329.55 | 60.14 | 13.57 | 12.97 | 70% |
| 8194 Dark Green | 7.94 | 60.83% | 0.0% | 60.8% | 0.0% | 31.54% | 3.00 | 1.00 | 4.83 | 4.83 | 14.49 | 347.75 | 63.46 | 12.26 | 15.31 | 70% |
| Total Emissions = Worst Case Coating | | | | | | | | | PM | Control Efficiency | 98.50% | | | | | |
| | | | | | | | | | | Uncontrolled | | 16.0 | 384 | 70.1 | 21.3 | |
| | | | | | | | | | | Controlled | | 16.0 | 384 | 70.1 | 0.320 | |

| Material | Density (lbs/gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (units/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC (pounds per hour) | Potential VOC (pounds per day) | Potential VOC (tons per year) | Particulate Potential (tons/yr) | lbs VOC/gal solids | Transfer Efficiency |
|---|-------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|----------------------|---|----------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------|---------------------|
| SB-C32 | | | | | | | | | | | | | | | | |
| 8062 Deep Amethyst | 8.00 | 60.42% | 0.0% | 60.4% | 0.0% | 30.36% | 4.00 | 1.00 | 4.83 | 4.83 | 19.33 | 464.03 | 84.68 | 16.64 | 15.92 | 70% |
| 8073 Deep Slate | 7.90 | 59.28% | 0.0% | 59.3% | 0.0% | 33.31% | 4.00 | 1.00 | 4.68 | 4.68 | 18.73 | 449.58 | 82.05 | 16.91 | 14.06 | 70% |
| 8076 Strawberry | 8.34 | 51.88% | 0.0% | 51.9% | 0.0% | 38.88% | 4.00 | 1.00 | 4.33 | 4.33 | 17.31 | 415.37 | 75.81 | 21.09 | 11.13 | 70% |
| 8078 Poppy Red | 7.98 | 54.93% | 0.0% | 54.9% | 0.0% | 36.87% | 4.00 | 1.00 | 4.38 | 4.38 | 17.53 | 420.81 | 76.80 | 18.90 | 11.89 | 70% |
| 8079 Candy Apple | 8.25 | 55.53% | 0.0% | 55.5% | 0.0% | 35.46% | 4.00 | 1.00 | 4.58 | 4.58 | 18.32 | 439.80 | 80.26 | 19.28 | 12.92 | 70% |
| 8097 Clear | 8.25 | 44.68% | 0.0% | 44.7% | 0.0% | 48.52% | 4.00 | 1.00 | 3.69 | 3.69 | 14.74 | 353.87 | 64.58 | 23.99 | 7.60 | 70% |
| 8107 Shale Green | 8.01 | 58.49% | 0.0% | 58.5% | 0.0% | 33.53% | 4.00 | 1.00 | 4.69 | 4.69 | 18.74 | 449.76 | 82.08 | 17.48 | 13.97 | 70% |
| 8109 Deep Hunter Green | 8.06 | 52.75% | 0.0% | 52.8% | 0.0% | 39.44% | 4.00 | 1.00 | 4.25 | 4.25 | 17.01 | 408.16 | 74.49 | 20.02 | 10.78 | 70% |
| 8112 Bright Silver Met | 8.11 | 61.08% | 0.0% | 61.1% | 0.0% | 32.20% | 4.00 | 1.00 | 4.95 | 4.95 | 19.81 | 475.54 | 86.79 | 16.59 | 15.38 | 70% |
| 8113 Patriot Blue PC | 8.01 | 56.93% | 0.0% | 56.9% | 0.0% | 36.15% | 4.00 | 1.00 | 4.56 | 4.56 | 18.24 | 437.77 | 79.89 | 18.13 | 12.61 | 70% |
| 8114 Aquamarine Met | 7.95 | 64.06% | 0.0% | 64.1% | 0.0% | 28.38% | 4.00 | 1.00 | 5.09 | 5.09 | 20.37 | 488.91 | 89.23 | 15.02 | 17.94 | 70% |
| 8117 Inferno Red PC | 8.15 | 56.63% | 0.0% | 56.6% | 0.0% | 34.02% | 4.00 | 1.00 | 4.62 | 4.62 | 18.46 | 443.07 | 80.86 | 18.58 | 13.57 | 70% |
| 8172 Ice Silver | 8.25 | 64.71% | 0.0% | 64.7% | 0.0% | 27.82% | 4.00 | 1.00 | 5.34 | 5.34 | 21.35 | 512.50 | 93.53 | 15.30 | 19.19 | 70% |
| 8174 Bright White | 9.72 | 44.39% | 0.0% | 44.4% | 0.0% | 37.64% | 4.00 | 1.00 | 4.31 | 4.31 | 17.26 | 414.21 | 75.59 | 28.41 | 11.46 | 70% |
| 8175 Radiant Fire Red | 8.01 | 53.26% | 0.0% | 53.3% | 0.0% | 37.66% | 4.00 | 1.00 | 4.27 | 4.27 | 17.06 | 409.55 | 74.74 | 19.68 | 11.33 | 70% |
| 8176 Primal Red | 8.21 | 54.91% | 0.0% | 54.9% | 0.0% | 36.07% | 4.00 | 1.00 | 4.51 | 4.51 | 18.03 | 432.78 | 78.98 | 19.46 | 12.50 | 70% |
| 8178 Cocoon White | 8.71 | 50.37% | 0.0% | 50.4% | 0.0% | 39.54% | 4.00 | 1.00 | 4.39 | 4.39 | 17.55 | 421.17 | 76.86 | 22.72 | 11.10 | 70% |
| 8181 Black | 8.10 | 54.54% | 0.0% | 54.5% | 0.0% | 38.28% | 4.00 | 1.00 | 4.42 | 4.42 | 17.67 | 424.10 | 77.40 | 19.35 | 11.54 | 70% |
| 8184 Island Teal | 8.20 | 54.95% | 0.0% | 55.0% | 0.0% | 36.78% | 4.00 | 1.00 | 4.51 | 4.51 | 18.02 | 432.60 | 78.95 | 19.41 | 12.25 | 70% |
| 8186 Golden White | 8.02 | 51.73% | 0.0% | 51.7% | 0.0% | 41.23% | 4.00 | 1.00 | 4.15 | 4.15 | 16.59 | 398.28 | 72.69 | 20.35 | 10.06 | 70% |
| 8188 Champagne | 8.62 | 56.53% | 0.0% | 56.5% | 0.0% | 35.08% | 4.00 | 1.00 | 4.87 | 4.87 | 19.49 | 467.80 | 85.37 | 19.69 | 13.89 | 70% |
| 8189 Cranberry | 8.19 | 52.34% | 0.0% | 52.3% | 0.0% | 39.56% | 4.00 | 1.00 | 4.29 | 4.29 | 17.15 | 411.52 | 75.10 | 20.52 | 10.84 | 70% |
| 8191 Slate Blue | 8.17 | 61.68% | 0.0% | 61.7% | 0.0% | 31.49% | 4.00 | 1.00 | 5.04 | 5.04 | 20.16 | 483.77 | 88.29 | 16.46 | 16.00 | 70% |
| 8192 Modern Blue | 8.02 | 57.07% | 0.0% | 57.1% | 0.0% | 35.30% | 4.00 | 1.00 | 4.58 | 4.58 | 18.31 | 439.39 | 80.19 | 18.10 | 12.97 | 70% |
| 8194 Dark Green | 7.94 | 60.83% | 0.0% | 60.8% | 0.0% | 31.54% | 4.00 | 1.00 | 4.83 | 4.83 | 19.32 | 463.67 | 84.62 | 16.35 | 15.31 | 70% |
| Total Emissions = Worst Case Coating | | | | | | | | | PM | Control Efficiency | 98.50% | | | | | |
| | | | | | | | | | | Uncontrolled | | 21.4 | 513 | 93.5 | 28.4 | |
| | | | | | | | | | | Controlled | | 21.4 | 513 | 93.5 | 0.426 | |

METHODOLOGY

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

**Appendix A: Emission Calculations
HAP Emission Calculations**

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

| Material | Density (lbs/gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Xylene | Weight % MIBK | Weight % Ethylene Glycol | Weight % Ethylbenzene | Weight % Formaldehyde | Weight % Toluene | Weight % Cumene | Xylene Emissions (tons/yr) | MIBK Emissions (tons/yr) | Ethylene Glycol (tons/yr) | Ethylbenzene Emissions (tons/yr) | Formaldehyde Emissions (tons/yr) | Toluene Emissions (tons/yr) | Cumene Emissions (tons/yr) |
|---------------------|-------------------|--------------------------------|---------------------|-----------------|---------------|--------------------------|-----------------------|-----------------------|------------------|-----------------|----------------------------|--------------------------|---------------------------|----------------------------------|----------------------------------|-----------------------------|----------------------------|
| SB-A | | | | | | | | | | | | | | | | | |
| 8000 SW BC-17 | 10.08 | 13.90 | 1.00 | 2.88% | 2.01% | 2.60% | 0.00% | 0.00% | 0.00% | 0.00% | 17.67 | 12.34 | 15.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8015 SW G58AR1 | 9.16 | 13.90 | 1.00 | 1.64% | 0.00% | 0.00% | 0.00% | 0.00% | 3.29% | 0.00% | 9.15 | 0.00 | 0.00 | 0.00 | 0.00 | 18.35 | 0.00 |
| 8023 Red Spot Ebony | 8.41 | 13.90 | 1.00 | 24.80% | 0.00% | 0.00% | 8.27% | 0.83% | 8.27% | 0.00% | 126.98 | 0.00 | 0.00 | 42.34 | 4.25 | 42.34 | 0.00 |
| 8025 Cooks Beige | 10.27 | 13.90 | 1.00 | 20.83% | 0.00% | 0.00% | 3.71% | 0.00% | 0.00% | 0.00% | 130.24 | 0.00 | 0.00 | 23.20 | 0.00 | 0.00 | 0.00 |
| 8050 SO Storm Gray | 8.16 | 13.90 | 1.00 | 0.08% | 0.00% | 0.00% | 0.08% | 0.00% | 0.01% | 0.00% | 0.40 | 0.00 | 0.00 | 0.40 | 0.00 | 0.05 | 0.00 |
| 8064 SW Med Mist | 9.26 | 13.90 | 1.00 | 0.47% | 0.00% | 0.00% | 0.00% | 0.00% | 0.84% | 0.31% | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 1.75 |
| 8065 SW Camel Tan | 9.46 | 13.90 | 1.00 | 0.46% | 0.00% | 0.00% | 0.00% | 0.00% | 0.85% | 0.31% | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 4.90 | 1.79 |
| 8066 Dark Slate | 8.86 | 13.90 | 1.00 | 0.49% | 0.00% | 0.00% | 0.00% | 0.00% | 0.84% | 0.33% | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 1.78 |
| 8067 SW Med Fawn | 10.06 | 13.90 | 1.00 | 0.43% | 0.00% | 0.00% | 0.00% | 0.00% | 0.86% | 0.29% | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.27 | 1.78 |
| 8116 SW AC-601 | 9.38 | 13.90 | 1.00 | 0.12% | 0.00% | 0.00% | 0.00% | 0.00% | 0.85% | 0.08% | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 4.85 | 0.46 |
| 8118 Akzo 40431CN | 9.17 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.04% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 |
| 8119 RS Graphite | 8.17 | 13.90 | 1.00 | 24.66% | 0.00% | 0.00% | 4.11% | 0.17% | 8.22% | 0.00% | 122.66 | 0.00 | 0.00 | 20.44 | 0.85 | 40.89 | 0.00 |
| 8120 SO BP-9471 | 9.13 | 13.90 | 1.00 | 0.71% | 1.01% | 0.00% | 0.35% | 0.03% | 0.01% | 0.00% | 3.95 | 5.61 | 0.00 | 1.95 | 0.17 | 0.06 | 0.00 |
| 8159 Akzo 224C | 10.02 | 13.90 | 1.00 | 2.90% | 0.00% | 4.95% | 0.00% | 0.03% | 0.00% | 0.00% | 17.69 | 0.00 | 30.20 | 0.00 | 0.18 | 0.00 | 0.00 |
| 8616 SW Gray | 11.20 | 13.90 | 1.00 | 2.36% | 4.71% | 0.00% | 0.00% | 0.00% | 4.64% | 0.00% | 16.09 | 32.12 | 0.00 | 0.00 | 0.00 | 31.64 | 0.00 |
| Totals: | | | | | | | | | | | 130.2 | 32.1 | 30.2 | 42.3 | 4.25 | 42.3 | 1.785 |

| Material | Density (lbs/gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Benzene | Weight % Diethylene glycol | Weight % Methyl Alcohol | Weight % Toluene-2,4-diisocyanate | Benzene Emissions (tons/yr) | Diethylene Glycol Emissions (tons/yr) | Methyl Alcohol Emissions (tons/yr) | Toluene 2-4 (diisocyanate) Emissions (tons/yr) | Total HAP Emissions (tons/yr) |
|---------------------|-------------------|--------------------------------|---------------------|------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------|---------------------------------------|------------------------------------|--|-------------------------------|
| SB-A | | | | | | | | | | | | |
| 8000 SW BC-17 | 10.08 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.05% | 0.00 | 0.00 | 0.00 | 0.31 | 46.27 |
| 8015 SW G58AR1 | 9.16 | 13.90 | 1.00 | 0.00% | 17.84% | 0.00% | 0.00% | 0.00 | 99.49 | 0.00 | 0.00 | 126.98 |
| 8023 Red Spot Ebony | 8.41 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 215.92 |
| 8025 Cooks Beige | 10.27 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 153.44 |
| 8050 SO Storm Gray | 8.16 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 |
| 8064 SW Med Mist | 9.26 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 9.13 |
| 8065 SW Camel Tan | 9.46 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 9.33 |
| 8066 Dark Slate | 8.86 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 8.95 |
| 8067 SW Med Fawn | 10.06 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 9.68 |
| 8116 SW AC-601 | 9.38 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 |
| 8118 Akzo 40431CN | 9.17 | 13.90 | 1.00 | 0.00% | 2.95% | 0.00% | 0.00% | 0.00 | 16.47 | 0.00 | 0.00 | 16.69 |
| 8119 RS Graphite | 8.17 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 184.84 |
| 8120 SO BP-9471 | 9.13 | 13.90 | 1.00 | 0.00% | 7.16% | 0.14% | 0.00% | 0.00 | 39.80 | 0.78 | 0.00 | 52.31 |
| 8159 Akzo 224C | 10.02 | 13.90 | 1.00 | 0.00% | 6.53% | 0.00% | 0.00% | 0.00 | 39.84 | 0.00 | 0.00 | 87.91 |
| 8616 SW Gray | 11.20 | 13.90 | 1.00 | 0.00% | 0.00% | 0.00% | 0.03% | 0.00 | 0.00 | 0.00 | 0.20 | 80.05 |
| Totals: | | | | | | | | 0.00 | 99.5 | 0.778 | 0.307 | 215.92 |

METHODOLOGY

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

**Appendix A: Emission Calculations
HAP Emission Calculations**

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

| Material | Density (lbs/gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Xylene | Weight % MIBK | Weight % Ethylene Glycol | Weight % Ethylbenzene | Weight % Formaldehyde | Weight % Toluene | Weight % Cumene | Xylene Emissions (tons/yr) | MIBK Emissions (tons/yr) | Ethylene Glycol (tons/yr) | Ethylbenzene Emissions (tons/yr) | Formaldehyde Emissions (tons/yr) | Toluene Emissions (tons/yr) | Cumene Emissions (tons/yr) |
|---------------------|-------------------|--------------------------------|---------------------|-----------------|---------------|--------------------------|-----------------------|-----------------------|------------------|-----------------|----------------------------|--------------------------|---------------------------|----------------------------------|----------------------------------|-----------------------------|----------------------------|
| SB-B | | | | | | | | | | | | | | | | | |
| 8000 SW BC-17 | 10.08 | 10.00 | 1.00 | 2.88% | 2.01% | 2.60% | 0.00% | 0.00% | 0.00% | 0.00% | 12.72 | 8.87 | 11.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8015 SW G58AR1 | 9.16 | 10.00 | 1.00 | 1.64% | 0.00% | 0.00% | 0.00% | 0.00% | 3.29% | 0.00% | 6.58 | 0.00 | 0.00 | 0.00 | 0.00 | 13.20 | 0.00 |
| 8023 Red Spot Ebony | 8.41 | 10.00 | 1.00 | 24.80% | 0.00% | 0.00% | 8.27% | 0.83% | 8.27% | 0.00% | 91.35 | 0.00 | 0.00 | 30.46 | 3.06 | 30.46 | 0.00 |
| 8025 Cooks Beige | 10.27 | 10.00 | 1.00 | 20.83% | 0.00% | 0.00% | 3.71% | 0.00% | 0.00% | 0.00% | 93.70 | 0.00 | 0.00 | 16.69 | 0.00 | 0.00 | 0.00 |
| 8050 SO Storm Gray | 8.16 | 10.00 | 1.00 | 0.08% | 0.00% | 0.00% | 0.08% | 0.00% | 0.01% | 0.00% | 0.29 | 0.00 | 0.00 | 0.29 | 0.00 | 0.04 | 0.00 |
| 8064 SW Med Mist | 9.26 | 10.00 | 1.00 | 0.47% | 0.00% | 0.00% | 0.00% | 0.00% | 0.84% | 0.31% | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 3.41 | 1.26 |
| 8065 SW Camel Tan | 9.46 | 10.00 | 1.00 | 0.46% | 0.00% | 0.00% | 0.00% | 0.00% | 0.85% | 0.31% | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 3.52 | 1.28 |
| 8066 Dark Slate | 8.86 | 10.00 | 1.00 | 0.49% | 0.00% | 0.00% | 0.00% | 0.00% | 0.84% | 0.33% | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 3.26 | 1.28 |
| 8067 SW Med Fawn | 10.06 | 10.00 | 1.00 | 0.43% | 0.00% | 0.00% | 0.00% | 0.00% | 0.86% | 0.29% | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 3.79 | 1.28 |
| 8116 SW AC-601 | 9.38 | 10.00 | 1.00 | 0.12% | 0.00% | 0.00% | 0.00% | 0.00% | 0.85% | 0.08% | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 3.49 | 0.33 |
| 8118 Akzo 40431CN | 9.17 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.04% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 |
| 8119 RS Graphite | 8.17 | 10.00 | 1.00 | 24.66% | 0.00% | 0.00% | 4.11% | 0.17% | 8.22% | 0.00% | 88.24 | 0.00 | 0.00 | 14.71 | 0.61 | 29.41 | 0.00 |
| 8120 SO BP-9471 | 9.13 | 10.00 | 1.00 | 0.71% | 1.01% | 0.00% | 0.35% | 0.03% | 0.01% | 0.00% | 2.84 | 4.04 | 0.00 | 1.40 | 0.12 | 0.04 | 0.00 |
| 8159 Akzo 224C | 10.02 | 10.00 | 1.00 | 2.90% | 0.00% | 4.95% | 0.00% | 0.03% | 0.00% | 0.00% | 12.73 | 0.00 | 21.72 | 0.00 | 0.13 | 0.00 | 0.00 |
| 8616 SW Gray | 11.20 | 10.00 | 1.00 | 2.36% | 4.71% | 0.00% | 0.00% | 0.00% | 4.64% | 0.00% | 11.58 | 23.11 | 0.00 | 0.00 | 0.00 | 22.76 | 0.00 |
| Totals: | | | | | | | | | | | 93.7 | 23.1 | 21.7 | 30.5 | 3.06 | 30.5 | 1.28 |

| Material | Density (lbs/gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Benzene | Weight % Diethylene glycol | Weight % Methyl Alcohol | Weight % Toluene-2,4-diisocyanate | Benzene Emissions (tons/yr) | Diethylene Glycol Emissions (tons/yr) | Methyl Alcohol Emissions (tons/yr) | Toluene 2-4(diisocyanate) Emissions (tons/yr) | Total HAP Emissions (tons/yr) |
|---------------------|-------------------|--------------------------------|---------------------|------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------|---------------------------------------|------------------------------------|---|-------------------------------|
| SB-B | | | | | | | | | | | | |
| 8000 SW BC-17 | 10.08 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.05% | 0.00 | 0.00 | 0.00 | 0.22 | 33.29 |
| 8015 SW G58AR1 | 9.16 | 10.00 | 1.00 | 0.00% | 17.84% | 0.00% | 0.00% | 0.00 | 71.58 | 0.00 | 0.00 | 91.36 |
| 8023 Red Spot Ebony | 8.41 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 155.34 |
| 8025 Cooks Beige | 10.27 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 110.39 |
| 8050 SO Storm Gray | 8.16 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.61 |
| 8064 SW Med Mist | 9.26 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 6.57 |
| 8065 SW Camel Tan | 9.46 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 6.71 |
| 8066 Dark Slate | 8.86 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 6.44 |
| 8067 SW Med Fawn | 10.06 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 6.96 |
| 8116 SW AC-601 | 9.38 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 4.31 |
| 8118 Akzo 40431CN | 9.17 | 10.00 | 1.00 | 0.00% | 2.95% | 0.00% | 0.00% | 0.00 | 11.85 | 0.00 | 0.00 | 12.01 |
| 8119 RS Graphite | 8.17 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 132.98 |
| 8120 SO BP-9471 | 9.13 | 10.00 | 1.00 | 0.00% | 7.16% | 0.14% | 0.00% | 0.00 | 28.63 | 0.56 | 0.00 | 37.63 |
| 8159 Akzo 224C | 10.02 | 10.00 | 1.00 | 0.00% | 6.53% | 0.00% | 0.00% | 0.00 | 28.66 | 0.00 | 0.00 | 63.24 |
| 8616 SW Gray | 11.20 | 10.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.03% | 0.00 | 0.00 | 0.00 | 0.15 | 57.59 |
| Totals: | | | | | | | | 0.00 | 71.6 | 0.560 | 0.221 | 155.34 |

METHODOLOGY

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

**Appendix A: Emission Calculations
HAP Emission Calculations**

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: May 7, 2007**

| Material | Density (lbs/gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Xylene | Weight % MIBK | Weight % Ethylene Glycol | Weight % Ethylbenzene | Weight % Methyl Alcohol | Weight % Formaldehyde | Weight % Toluene | Xylene Emissions (tons/yr) | MIBK Emissions (tons/yr) | Ethylene Glycol (tons/yr) | Ethyl Benzene Emissions (tons/yr) | Methyl Alcohol Emissions (tons/yr) | Formaldehyde Emissions (tons/yr) | Toluene Emissions (tons/yr) | Total HAP Emissions (tons/yr) | |
|------------------------|-------------------|--------------------------------|---------------------|-----------------|---------------|--------------------------|-----------------------|-------------------------|-----------------------|------------------|----------------------------|--------------------------|---------------------------|-----------------------------------|------------------------------------|----------------------------------|-----------------------------|-------------------------------|-------|
| SB-C24 | | | | | | | | | | | | | | | | | | | |
| 8062 Deep Amethyst | 8.00 | 3.00 | 1.00 | 4.16% | 4.16% | 0.00% | 0.83% | 0.00% | 0.00% | 0.00% | 4.37 | 4.37 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 9.62 |
| 8073 Deep Slate | 7.90 | 3.00 | 1.00 | 0.00% | 3.95% | 0.00% | 0.00% | 0.00% | 0.00% | 4.10% | 0.00 | 4.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.26 | 8.36 |
| 8076 Strawberry | 8.34 | 3.00 | 1.00 | 0.00% | 4.13% | 0.00% | 0.00% | 0.00% | 0.00% | 4.13% | 0.00 | 4.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 9.05 |
| 8078 Poppy Red | 7.98 | 3.00 | 1.00 | 15.83% | 4.09% | 0.00% | 2.87% | 0.00% | 0.00% | 8.18% | 16.60 | 4.29 | 0.00 | 3.01 | 0.00 | 0.00 | 0.00 | 8.58 | 32.47 |
| 8079 Candy Apple | 8.25 | 3.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8097 Clear | 8.25 | 3.00 | 1.00 | 16.30% | 0.00% | 0.00% | 4.08% | 0.00% | 0.82% | 0.00% | 17.67 | 0.00 | 0.00 | 4.42 | 0.00 | 0.89 | 0.00 | 0.00 | 22.98 |
| 8107 Shale Green | 8.01 | 3.00 | 1.00 | 4.07% | 4.07% | 0.00% | 0.81% | 0.00% | 0.00% | 4.07% | 4.28 | 4.28 | 0.00 | 0.85 | 0.00 | 0.00 | 4.28 | 13.70 | |
| 8109 Deep Hunter Green | 8.06 | 3.00 | 1.00 | 4.08% | 4.08% | 0.00% | 0.82% | 0.00% | 0.82% | 4.08% | 4.32 | 4.32 | 0.00 | 0.87 | 0.00 | 0.87 | 4.32 | 14.70 | |
| 8112 Bright Silver Met | 8.11 | 3.00 | 1.00 | 4.08% | 0.00% | 0.00% | 0.82% | 0.00% | 0.00% | 4.08% | 4.35 | 0.00 | 0.00 | 0.87 | 0.00 | 0.00 | 4.35 | 9.57 | |
| 8113 Patriot Blue PC | 8.01 | 3.00 | 1.00 | 0.00% | 1.62% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.71 | |
| 8114 Aquamarine Met | 7.95 | 3.00 | 1.00 | 4.06% | 4.06% | 0.00% | 0.81% | 0.00% | 0.00% | 4.06% | 4.24 | 4.24 | 0.00 | 0.85 | 0.00 | 0.00 | 4.24 | 13.57 | |
| 8117 Inferno Red PC | 8.15 | 3.00 | 1.00 | 4.09% | 0.00% | 0.00% | 0.82% | 0.00% | 0.00% | 0.00% | 4.38 | 0.00 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 5.26 | |
| 8172 Ice Silver | 8.25 | 3.00 | 1.00 | 4.02% | 4.02% | 0.00% | 0.80% | 0.00% | 0.00% | 0.00% | 4.36 | 4.36 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 9.58 | |
| 8174 Bright White | 9.72 | 3.00 | 1.00 | 4.31% | 0.00% | 0.00% | 0.86% | 0.00% | 0.00% | 0.00% | 5.50 | 0.00 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 6.60 | |
| 8175 Radiant Fire Red | 8.01 | 3.00 | 1.00 | 4.16% | 0.00% | 0.00% | 0.83% | 0.00% | 0.00% | 0.00% | 4.38 | 0.00 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 5.25 | |
| 8176 Primal Red | 8.21 | 3.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.82% | 4.09% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.88 | 4.41 | 0.00 | 0.00 | 5.30 | |
| 8178 Cocoon White | 8.71 | 3.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 4.07% | 0.00% | 0.07% | 0.00 | 0.00 | 0.00 | 0.00 | 4.66 | 0.00 | 0.08 | 4.74 | |
| 8181 Black | 8.10 | 3.00 | 1.00 | 19.66% | 0.00% | 0.00% | 3.64% | 4.09% | 0.82% | 0.00% | 20.92 | 0.00 | 0.00 | 3.87 | 4.35 | 0.87 | 0.00 | 30.03 | |
| 8184 Island Teal | 8.20 | 3.00 | 1.00 | 4.09% | 4.09% | 0.00% | 0.82% | 0.00% | 0.00% | 4.09% | 4.41 | 4.41 | 0.00 | 0.88 | 0.00 | 0.00 | 4.41 | 14.10 | |
| 8186 Golden White | 8.02 | 3.00 | 1.00 | 4.09% | 4.09% | 0.00% | 0.82% | 0.00% | 0.00% | 4.09% | 4.31 | 4.31 | 0.00 | 0.86 | 0.00 | 0.00 | 4.31 | 18.10 | |
| 8188 Champagne | 8.62 | 3.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.81% | 0.00% | 0.00% | 4.06% | 0.00 | 0.00 | 0.00 | 0.92 | 0.00 | 0.00 | 4.60 | 5.52 | |
| 8189 Cranberry | 8.19 | 3.00 | 1.00 | 4.09% | 4.09% | 0.00% | 0.82% | 0.00% | 0.00% | 4.09% | 4.40 | 4.40 | 0.00 | 0.88 | 0.00 | 0.00 | 4.40 | 14.09 | |
| 8191 Slate Blue | 8.17 | 3.00 | 1.00 | 4.06% | 0.00% | 0.00% | 0.81% | 0.00% | 0.00% | 4.06% | 4.36 | 0.00 | 0.00 | 0.87 | 0.00 | 0.00 | 4.36 | 9.59 | |
| 8192 Modern Blue | 8.02 | 3.00 | 1.00 | 4.07% | 0.00% | 0.00% | 0.81% | 0.00% | 0.00% | 0.00% | 4.29 | 0.00 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 5.14 | |
| 8194 Dark Green | 7.94 | 3.00 | 1.00 | 4.08% | 0.00% | 0.00% | 0.82% | 0.00% | 0.00% | 0.00% | 4.26 | 0.00 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 5.11 | |
| Totals: | | | | | | | | | | | 20.9 | 4.53 | 4.31 | 4.42 | 4.66 | 0.89 | 8.58 | 32.47 | |

| Material | Density (lbs/gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Xylene | Weight % MIBK | Weight % Ethylene Glycol | Weight % Ethylbenzene | Weight % Methyl Alcohol | Weight % Formaldehyde | Weight % Toluene | Xylene Emissions (tons/yr) | MIBK Emissions (tons/yr) | Ethylene Glycol (tons/yr) | Ethyl Benzene Emissions (tons/yr) | Methyl Alcohol Emissions (tons/yr) | Formaldehyde Emissions (tons/yr) | Toluene Emissions (tons/yr) | Total HAP Emissions (tons/yr) | |
|------------------------|-------------------|--------------------------------|---------------------|-----------------|---------------|--------------------------|-----------------------|-------------------------|-----------------------|------------------|----------------------------|--------------------------|---------------------------|-----------------------------------|------------------------------------|----------------------------------|-----------------------------|-------------------------------|--|
| SB-C32 | | | | | | | | | | | | | | | | | | | |
| 8062 Deep Amethyst | 8.00 | 4.00 | 1.00 | 4.16% | 4.16% | 0.00% | 0.83% | 0.00% | 0.00% | 0.00% | 5.83 | 5.83 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 12.82 | |
| 8073 Deep Slate | 7.90 | 4.00 | 1.00 | 0.00% | 3.95% | 0.00% | 0.00% | 0.00% | 0.00% | 4.10% | 0.00 | 5.47 | 0.00 | 0.00 | 0.00 | 0.00 | 5.67 | 11.14 | |
| 8076 Strawberry | 8.34 | 4.00 | 1.00 | 0.00% | 4.13% | 0.00% | 0.00% | 0.00% | 0.00% | 4.13% | 0.00 | 6.03 | 0.00 | 0.00 | 0.00 | 0.00 | 6.03 | 12.07 | |
| 8078 Poppy Red | 7.98 | 4.00 | 1.00 | 15.83% | 4.09% | 0.00% | 2.87% | 0.00% | 0.00% | 8.18% | 22.13 | 5.72 | 0.00 | 4.01 | 0.00 | 0.00 | 11.44 | 43.30 | |
| 8079 Candy Apple | 8.25 | 4.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8097 Clear | 8.25 | 4.00 | 1.00 | 16.30% | 0.00% | 0.00% | 4.08% | 0.00% | 0.82% | 0.00% | 23.56 | 0.00 | 0.00 | 5.90 | 0.00 | 1.19 | 0.00 | 30.64 | |
| 8107 Shale Green | 8.01 | 4.00 | 1.00 | 4.07% | 4.07% | 0.00% | 0.81% | 0.00% | 0.00% | 4.07% | 5.71 | 5.71 | 0.00 | 1.14 | 0.00 | 0.00 | 5.71 | 18.27 | |
| 8109 Deep Hunter Green | 8.06 | 4.00 | 1.00 | 4.08% | 4.08% | 0.00% | 0.82% | 0.00% | 0.82% | 4.08% | 5.76 | 5.76 | 0.00 | 1.16 | 0.00 | 1.16 | 5.76 | 19.60 | |
| 8112 Bright Silver Met | 8.11 | 4.00 | 1.00 | 4.08% | 0.00% | 0.00% | 0.82% | 0.00% | 0.00% | 4.08% | 5.80 | 0.00 | 0.00 | 1.17 | 0.00 | 0.00 | 5.80 | 12.76 | |
| 8113 Patriot Blue PC | 8.01 | 4.00 | 1.00 | 0.00% | 1.62% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | | |
| 8114 Aquamarine Met | 7.95 | 4.00 | 1.00 | 4.06% | 4.06% | 0.00% | 0.81% | 0.00% | 0.00% | 4.06% | 5.65 | 5.65 | 0.00 | 1.13 | 0.00 | 0.00 | 5.65 | 18.09 | |
| 8117 Inferno Red PC | 8.15 | 4.00 | 1.00 | 4.09% | 0.00% | 0.00% | 0.82% | 0.00% | 0.00% | 0.00% | 5.84 | 0.00 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 7.01 | |
| 8172 Ice Silver | 8.25 | 4.00 | 1.00 | 4.02% | 4.02% | 0.00% | 0.80% | 0.00% | 0.00% | 0.00% | 5.81 | 5.81 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 12.78 | |
| 8174 Bright White | 9.72 | 4.00 | 1.00 | 4.31% | 0.00% | 0.00% | 0.86% | 0.00% | 0.00% | 0.00% | 7.34 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 8.80 | |
| 8175 Radiant Fire Red | 8.01 | 4.00 | 1.00 | 4.16% | 0.00% | 0.00% | 0.83% | 0.00% | 0.00% | 0.00% | 5.84 | 0.00 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 7.00 | |
| 8176 Primal Red | 8.21 | 4.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.82% | 4.09% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 1.18 | 5.88 | 0.00 | 0.00 | 7.06 | |
| 8178 Cocoon White | 8.71 | 4.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 4.07% | 0.00% | 0.07% | 0.00 | 0.00 | 0.00 | 0.00 | 6.21 | 0.00 | 0.11 | 6.32 | |
| 8181 Black | 8.10 | 4.00 | 1.00 | 19.66% | 0.00% | 0.00% | 3.64% | 4.09% | 0.82% | 0.00% | 27.90 | 0.00 | 0.00 | 5.17 | 5.80 | 1.16 | 0.00 | 40.03 | |
| 8184 Island Teal | 8.20 | 4.00 | 1.00 | 4.09% | 4.09% | 0.00% | 0.82% | 0.00% | 0.00% | 4.09% | 5.88 | 5.88 | 0.00 | 1.18 | 0.00 | 0.00 | 5.88 | 18.81 | |
| 8186 Golden White | 8.02 | 4.00 | 1.00 | 4.09% | 4.09% | 0.00% | 0.82% | 0.00% | 0.00% | 4.09% | 5.75 | 5.75 | 0.00 | 1.15 | 0.00 | 0.00 | 5.75 | 24.14 | |
| 8188 Champagne | 8.62 | 4.00 | 1.00 | 0.00% | 0.00% | 0.00% | 0.81% | 0.00% | 0.00% | 4.06% | 0.00 | 0.00 | 0.00 | 1.22 | 0.00 | 0.00 | 6.13 | 7.35 | |
| 8189 Cranberry | 8.19 | 4.00 | 1.00 | 4.09% | 4.09% | 0.00% | 0.82% | 0.00% | 0.00% | 4.09% | 5.87 | 5.87 | 0.00 | 1.18 | 0.00 | 0.00 | 5.87 | 18.78 | |
| 8191 Slate Blue | 8.17 | 4.00 | 1.00 | 4.06% | 0.00% | 0.00% | 0.81% | 0.00% | 0.00% | 4.06% | 5.81 | 0.00 | 0.00 | 1.16 | 0.00 | 0.00 | 5.81 | 12.78 | |
| 8192 Modern Blue | 8.02 | 4.00 | 1.00 | 4.07% | 0.00% | 0.00% | 0.81% | 0.00% | 0.00% | 0.00% | 5.72 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 6.86 | |
| 8194 Dark Green | 7.94 | 4.00 | 1.00 | 4.08% | 0.00% | 0.00% | 0.82% | 0.00% | 0.00% | 0.00% | 5.68 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 6.82 | |
| Totals: | | | | | | | | | | | 27.9 | 6.03 | 5.75 | 5.90 | 6.21 | 1.19 | 11.44 | 43.30 | |

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

**Appendix A: Emissions Calculations
Particulate, VOC and HAP Emissions
From SMC Manufacturing Operations**

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

Particulate Emissions

| Unit ID | Total PM Collected (lbs/hour) | Process Weight Rate (lbs/hour) | Dry Material (lbs/hour) | Control Efficiency (%) | Potential Emissions (lbs/hour) | Potential Emissions (tons/year) | Potential Emissions after Control (lbs/hour) | Potential Emissions after Control (tons/year) |
|-----------|-------------------------------|--------------------------------|-------------------------|------------------------|--------------------------------|---------------------------------|--|---|
| Machine 1 | 19.68 | 12,000 | 4,800 | 99.0% | 19.88 | 87.07 | 0.199 | 0.871 |
| Machine 2 | 19.68 | 12,000 | 4,800 | 99.0% | 19.88 | 87.07 | 0.199 | 0.871 |
| Machine 3 | 4.38 | 2,670 | 1,068 | 99.0% | 4.42 | 19.37 | 0.044 | 0.194 |

METHODOLOGY

Assume worst case: all PM = PM-10.

Potential Emissions (lbs/hr) = PM Collected (lbs/hr) / Control Efficiency (%)

Potential Emissions (tons/year) = Potential Emissions (lbs/hr) x (8760 hours/year) x (1 ton/2000 lbs)

Potential Emissions after Control (lbs/hr) = Potential Emissions (lbs/hr) * (1 - Control Efficiency (%))

Potential Emissions after Control (tons/year) = Potential Emissions after Control (lbs/hr) x (8760 hours/year) x (1 ton/2000 lbs)

VOC and Styrene Emissions

| Unit ID | SMC Throughput (tons/hour) | Max. VOC/Styrene Content (%) | VOC Emission Factor (lb emitted / lb VOC input) | Styrene Emission Factor (lb emitted / lb Styrene input) | Potential VOC Emissions (lbs/hour) | Potential Styrene Emissions (lbs/hour) | Potential VOC Emissions (tons/year) | Potential Styrene Emissions (tons/year) |
|---------------|----------------------------|------------------------------|---|---|------------------------------------|--|-------------------------------------|---|
| SMC Machine 1 | 6.00 | 25.0% | 0.0059 | 0.0059 | 17.70 | 17.70 | 77.53 | 77.53 |
| SMC Machine 2 | 6.00 | 25.0% | 0.0059 | 0.0059 | 17.70 | 17.70 | 77.53 | 77.53 |
| SMC Machine 3 | 1.34 | 25.0% | 0.0059 | 0.0059 | 3.95 | 3.95 | 17.31 | 17.31 |
| Total | | | | | | | 172.37 | 172.37 |

METHODOLOGY

Potential Emissions (lbs/hour) = SMC Throughput (tons/hour) x VOC Content (%) x Emission factor (lbs/ton)

Potential Emissions (tons/year) = Potential Emissions (lbs/hour) * 8760 hrs/yr / 2000 lbs/ton

All VOC is Styrene

Emission factor for the SMC machines are based on a stack test performed at this facility. The stack test showed higher emissions than those in the CFA document, so these higher emission factors were used.

VOC and Styrene Emissions

| Unit ID | SMC Throughput (tons/hour) | VOC Emission Factor (lbs/ton SMC) | Styrene Emission Factor (lbs/ton SMC) | Potential VOC Emissions (lbs/hour) | Potential Styrene Emissions (lbs/hour) | Potential VOC Emissions (tons/year) | Potential Styrene Emissions (tons/year) |
|---------------------|----------------------------|-----------------------------------|---------------------------------------|------------------------------------|--|-------------------------------------|---|
| Machine 1 | | | | | | | |
| Resin Storage Tanks | 6.00 | 0.059 | 0.059 | 0.354 | 0.354 | 1.55 | 1.55 |
| Mixing Station | 6.00 | 0.19 | 0.19 | 1.140 | 1.140 | 4.99 | 4.99 |
| SMC Holding Area | 6.00 | 0.0018 | 0.0018 | 0.011 | 0.011 | 0.05 | 0.05 |
| Total | | | | | | 6.59 | 6.59 |
| Machine 2 | | | | | | | |
| Resin Storage Tanks | 6.00 | 0.059 | 0.059 | 0.354 | 0.354 | 1.55 | 1.55 |
| Mixing Station | 6.00 | 0.19 | 0.19 | 1.140 | 1.140 | 4.99 | 4.99 |
| SMC Holding Area | 6.00 | 0.0018 | 0.0018 | 0.011 | 0.011 | 0.05 | 0.05 |
| Total | | | | | | 6.59 | 6.59 |
| Machine 3 | | | | | | | |
| Resin Storage Tanks | 1.34 | 0.059 | 0.059 | 0.079 | 0.079 | 0.345 | 0.345 |
| Mixing Station | 1.34 | 0.19 | 0.19 | 0.254 | 0.254 | 1.11 | 1.11 |
| SMC Holding Area | 1.34 | 0.0018 | 0.0018 | 0.002 | 0.002 | 0.011 | 0.011 |
| Total | | | | | | 1.47 | 1.47 |

METHODOLOGY

Potential Emissions (lbs/hour) = SMC Throughput (tons/hour) x Emission factor (lbs/ton)

Potential Emissions (tons/year) = Potential Emissions (lbs/hour) * 8760 hrs/yr / 2000 lbs/ton

All VOC is Styrene

Emission Factors are based on "Q and A: Composites Manufacturing Emissions - A Guide for Composites Manufacturers, Communities and Regulators" June 1999

Emission factors for the Mixing Station are based on emission factors approved by the Ohio EPA for the same process. These factors were based on a stack test.

**Appendix A: Emissions Calculations
From Fiberglass Press Operations**

**Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741-0189
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007**

| Press ID | Installation Date | SMC Capacity (lbs/hr) | Max VOC Content (Styrene) (%) | Emission Factor (%) | VOC and Styrene Potential (lbs/hr) | VOC and Styrene Potential (tons/yr) |
|--|-------------------|-----------------------|-------------------------------|---------------------|------------------------------------|-------------------------------------|
| Compression Molding Presses (SMC) | | | | | | |
| PR-0419 | 1986 | 219 | 25.0% | 3.0% | 1.64 | 7.19 |
| PR-0420 | 1986 | 219 | 25.0% | 3.0% | 1.64 | 7.19 |
| PR-0618 | 1986 | 219 | 25.0% | 3.0% | 1.64 | 7.19 |
| PRV-0648 | 1990 | 219 | 25.0% | 3.0% | 1.64 | 7.19 |
| PRV-0849 | 1990 | 188 | 25.0% | 3.0% | 1.41 | 6.18 |
| PRV-1026 | 1990 | 275 | 25.0% | 3.0% | 2.06 | 9.03 |
| PRV-1222 | 1973 | 338 | 25.0% | 3.0% | 2.54 | 11.10 |
| PRV-1223 | 1973 | 338 | 25.0% | 3.0% | 2.54 | 11.10 |
| PR-1250 | 1985 | 338 | 25.0% | 3.0% | 2.54 | 11.10 |
| PRV-1558 | 1977 | 263 | 25.0% | 3.0% | 1.97 | 8.64 |
| PRV-2024 | 1975 | 263 | 25.0% | 3.0% | 1.97 | 8.64 |
| PRV-2025 | 1975 | 263 | 25.0% | 3.0% | 1.97 | 8.64 |
| PRV-2059 | 1984 | 263 | 25.0% | 3.0% | 1.97 | 8.64 |
| PR-2566 | 2000 | 435 | 25.0% | 3.0% | 3.26 | 14.29 |
| PR-2567 | 2000 | 435 | 25.0% | 3.0% | 3.26 | 14.29 |
| PRV-4470 | 1995 | 263 | 25.0% | 3.0% | 1.97 | 8.64 |
| Injection Molding Presses (SMC) | | | | | | |
| PR-1571 | 1998 | 188 | 13.0% | 3.0% | 0.73 | 3.21 |
| PR-2072 | 2004 | 300 | 13.0% | 3.0% | 1.17 | 5.12 |
| PR-1073 | 2005 | 200 | 13.0% | 3.0% | 0.78 | 3.42 |
| Total | | | | | | 160.83 |

METHODOLOGY

IDEM approved emission factor taken from the former AP-42 Ch 4.4 for closed molding operations
 Potential Emissions (lbs/hour) = SMC Capacity (lbs/hour) * VOC (Styrene) Content (%) * Emission Factor (%)
 Potential Emissions (tons/year) = Potential Emissions (lbs/hour) * 8,760 hours/year / 2000 lbs/ton
 All VOC is Styrene

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

Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741-0189
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

69.9

613

| Emission Factor in lb/MMCF | Pollutant | | | | | |
|-------------------------------|-----------|-------|-------|---------------------------|-------|--------|
| | PM* | PM10* | SO2 | NOx 100 **see below | VOC | CO |
| Potential Emission in tons/yr | 0.582 | 2.328 | 0.184 | 30.634 | 1.685 | 25.733 |

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See page 13 for HAPs emissions calculations.

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

Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741-0189
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: July 31, 2007

| | HAPs - Organics | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| Emission Factor in lb/MMcf | Benzene 0.00210 | Dichlorobenzene 0.00120 | Formaldehyde 0.07500 | Hexane 1.80000 | Toluene 0.00340 |
| Potential Emission in tons/yr | 0.000643 | 0.000368 | 0.022976 | 0.551415 | 0.001042 |

| | HAPs - Metals | | | | | |
|-------------------------------|----------------|-------------------|--------------------|---------------------|------------------|--------------|
| Emission Factor in lb/MMcf | Lead 0.0005 | Cadmium 0.0011 | Chromium 0.0014 | Manganese 0.0004 | Nickel 0.0021 | Total |
| Potential Emission in tons/yr | 0.00015 | 0.00034 | 0.00043 | 0.00012 | 0.00064 | 0.578 |

Methodology is the same as page 12.

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

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

Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741-0189
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: May 7, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

69.9

613

| Emission Factor in lb/MMCF | Pollutant | | | | | |
|-------------------------------|-----------|-------|-------|---------------------------|-------|--------|
| | PM* | PM10* | SO2 | NOx 100 **see below | VOC | CO |
| Potential Emission in tons/yr | 0.582 | 2.328 | 0.184 | 30.634 | 1.685 | 25.733 |

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See page 16 for HAPs emissions calculations.

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

Company Name: Meridian Automotive Systems
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741-0189
Permit Number: T 003-23272-00059
Reviewer: Edward A. Longenberger
Date: May 7, 2007

| HAPs - Organics | | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| Emission Factor in lb/MMcf | Benzene 0.00210 | Dichlorobenzene 0.00120 | Formaldehyde 0.07500 | Hexane 1.80000 | Toluene 0.00340 |
| Potential Emission in tons/yr | 0.000643 | 0.000368 | 0.022976 | 0.551415 | 0.001042 |

| HAPs - Metals | | | | | | |
|-------------------------------|----------------|-------------------|--------------------|---------------------|------------------|--------------|
| Emission Factor in lb/MMcf | Lead 0.0005 | Cadmium 0.0011 | Chromium 0.0014 | Manganese 0.0004 | Nickel 0.0021 | Total |
| Potential Emission in tons/yr | 0.00015 | 0.00034 | 0.00043 | 0.00012 | 0.00064 | 0.578 |

Methodology is the same as page 15.

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