



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
MC 61-53  
(317) 232-8603  
(800) 451-6027  
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TO: Interested Parties / Applicant

DATE: February 1, 2008

RE: MasterBrand Cabinets, Inc. - Plants #2 and #3A / 037-20767-00015

FROM: Matthew Stuckey, Deputy Branch Chief  
Permits Branch  
Office of Air Quality

### **Notice of Decision: Approval – Effective Immediately**

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted, 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, Suite N 501E, 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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(317) 232-8603  
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## Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**MasterBrand Cabinets, Inc. – Plants #2 and #3A  
One MasterBrand Cabinets Drive  
Jasper, Indiana 47546**

**And**

**14<sup>th</sup> Street and MasterBrand Cabinets Drive  
Jasper, Indiana 47546**

(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 037-20767-00015	
Issued by: <i>Original document signed by</i> Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: February 1, 2008  Expiration Date: February 1, 2013

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1, A.3, and A.4 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)]

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The Permittee owns and operates a wood furniture and kitchen cabinet manufacturing source.

Source Address:	One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and 14 <sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546
Mailing Address:	P.O. Box 420, Jasper, IN 47547-0420
General Source Phone Number:	812-482-2527
SIC Code:	2434, 2517
County Location:	Dubois
Source Location Status:	Nonattainment for PM <sub>2.5</sub> Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source under PSD Rules Major Source under Emission Offset Rules Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

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This wood furniture and kitchen cabinets manufacturing source consists of two (2) plants:

- (a) Plant #2 is located at One MasterBrand Cabinets Drive, Jasper, IN 47546; and
- (b) Plant #3A is located at 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, IN 47546.

Since the two (2) plants are located on contiguous properties, have the same Standard Industrial Classification (SIC) codes and are owned by one (1) company, they will be considered one (1) source and issued one (1) Title V operating permit number: T 037-20767; and one (1) source identification number: 037-00015.

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

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

Sixteen (16) surface coating booths located in Plant #2, including the following:

- (a) Two (2) electrostatic disc sealer booths, identified as SB6 and SB7, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stacks S1 and S2 at maximum flow rates of 4,500 dscfm, each, maximum capacity: 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, with STB2 exhausting to stack ST2 at maximum flow rate of 4,500

dscfm, and STB3 exhausting to stacks ST1A and ST1B at a maximum flow rate of 4,500 acfm and 3,000 acfm, respectively, maximum capacity: of 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.

- (c) Two (2) electrostatic disc topcoat booths, identified as TCB10 and TCB11, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC1 and TC2 at maximum flow rates of 4,500 dscfm, each, maximum capacity: 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (d) One (1) toner booth, identified as TB1, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and electrostatic guns (air assisted airless) and with dry filters for particulate control, exhausting to stack T1 at a maximum flow rate of 11,000 dscfm, maximum capacity: 4800 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (e) Two (2) topcoat touch-up booths, identified as TCB9 and TCB12, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC4 and TC3 at maximum flow rates of 9,500 dscfm and 3,000 acfm, respectively, maximum capacity: 4800 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (f) One (1) sealer touch-up booth, identified as SB8, constructed in May 1993, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack S3 at a maximum flow rate of 9,500 dscfm, maximum capacity: 4800 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (g) Four (4) manual off-line spray booths, identified as OFB-1 through OFB-4, approved for construction in 2007, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks OF-1 through OF-4 at maximum flow rates of 10,000, 10,000, 10,000 and 15,000 dscfm, respectively, maximum capacity: 70 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (h) One (1) manual toner-back spray booth, identified as TBB-1, approved for construction in 2007, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack TB-1 at a maximum flow rate of 10,000 dscfm, maximum capacity: 350 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (i) One (1) manual pre-seal spray booth, identified as PSB-1, approved for construction in 2007, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack PS-1 at a maximum flow rate of 8,000 dscfm, maximum capacity: 175 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (j) Woodworking operations, consisting of the following:
  - (1) Woodworking operations located at Plant #2, identified as MC14, constructed in 1974, equipped with two (2) baghouses for particulate control, identified as BH-1 and BH-2, one with a maximum air flow rate of 35,000 acfm and a grain loading of

0.01 gr/dscf and one with a maximum air flow rate of 30,000 acfm and a grain loading of 0.01 gr/dscf, exhausting to Stacks C1 and C2, respectively, capacity: 5,950 pounds of wood per hour [326 IAC 6.5-1-2].

- (2) Woodworking operations located at Plant #3A, identified as MC2, constructed in 1979, equipped with a baghouse for particulate control, identified as BH-3, with a maximum air flow rate of 12,000 acfm and a grain loading of 0.01 gr/dscf, exhausting to Stack C3, capacity: 10,710 pounds of wood per hour [326 IAC 6.5-1-2].

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

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

- (a) Emergency Diesel generators not exceeding one thousand six hundred (1,600) horsepower including the following:

One (1) Diesel powered generator with a 535 bhp engine, rated at 350 kW, operated less than 500 hours per year [326 IAC 6.5-1-2].

- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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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 037-20767-00015, 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

and

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

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

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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

Telephone Number: 812-380-2305 or 888-672-8323 (Southwest Regional Office)  
Facsimile Number: 812-380-2304 (Southwest Regional Office)

- (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

And

Southwest Regional Office  
1120 N. Vincennes Avenue  
P.O. Box 128  
Petersburg, Indiana 47567-0128

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]**

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- (a) All terms and conditions of permits established prior to T 037-20767-00015 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)]**

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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)]**

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- (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]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

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

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

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

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- (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]**

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- (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 2-3-2]

- (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 2-3-2.

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 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 thirty percent (30%) 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.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

#### C.3 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.4 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.5 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.

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

- (2) If there is a change in the following:
  - (A) Asbestos removal or demolition start date;
  - (B) Removal or demolition contractor; or
  - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

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

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

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

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

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

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

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

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

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

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

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

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

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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.

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

**C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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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 July 13, 1999.
- (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.12 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

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

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- (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.14 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.15 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) Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
  - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
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.16 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [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 2-3-1(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 2-3-1(z)) and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-3-1(mm)), the Permittee shall comply with the following:
  - (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-3-1(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 2-3-1(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.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [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 2-3-1(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 2-3-1(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 2-3-2(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.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

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

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

## SECTION D.1

## FACILITY OPERATION CONDITIONS

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

Sixteen (16) surface coating booths located in Plant #2, including the following:

- (a) Two (2) electrostatic disc sealer booths, identified as SB6 and SB7, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stacks S1 and S2 at maximum flow rates of 4,500 dscfm, each, maximum capacity: 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, with STB2 exhausting to stack ST2 at maximum flow rate of 4,500 dscfm, and STB3 exhausting to stacks ST1A and ST1B at a maximum flow rate of 4,500 acfm and 3,000 acfm, respectively, maximum capacity: of 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (c) Two (2) electrostatic disc topcoat booths, identified as TCB10 and TCB11, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC1 and TC2 at maximum flow rates of 4,500 dscfm, each, maximum capacity: 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (d) One (1) toner booth, identified as TB1, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and electrostatic guns (air assisted airless) and with dry filters for particulate control, exhausting to stack T1 at a maximum flow rate of 11,000 dscfm, maximum capacity: 4800 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (e) Two (2) topcoat touch-up booths, identified as TCB9 and TCB12, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC4 and TC3 at maximum flow rates of 9,500 dscfm and 3,000 acfm, respectively, maximum capacity: 4800 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (f) One (1) sealer touch-up booth, identified as SB8, constructed in May 1993, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack S3 at a maximum flow rate of 9,500 dscfm, maximum capacity: 4800 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (g) Four (4) manual off-line spray booths, identified as OFB-1 through OFB-4, approved for construction in 2007, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks OF-1 through OF-4 at maximum flow rates of 10,000, 10,000, 10,000 and 15,000 dscfm, respectively, maximum capacity: 70 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (h) One (1) manual toner-back spray booth, identified as TBB-1, approved for construction in 2007, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack TB-1 at a maximum flow rate of 10,000 dscfm, maximum capacity: 350 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.

- (i) One (1) manual pre-seal spray booth, identified as PSB-1, approved for construction in 2007, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack PS-1 at a maximum flow rate of 8,000 dscfm, maximum capacity: 175 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.

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

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

#### **D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]**

Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), the surface coating applied to wood furniture and cabinets at the seven (7) surface coating booths, identified as SB8, OFB-1 through OFB-4, TBB-1, and PSB-1, shall utilize one of the following application methods:

- Airless Spray Application
- Air Assisted Airless Spray Application
- Electrostatic Spray Application
- Electrostatic Bell or Disc Application
- Heated Airless Spray Application
- Roller Coating
- Brush or Wipe Application
- Dip-and-Drain Application

High Volume Low Pressure (HVLP) Spray Application is an accepted alternative method of application for Air Assisted Airless Spray Application. HVLP spray is the technology used to apply coating to substrate by means of coating application equipment which operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

#### **D.1.2 VOC PSD Minor Limit [326 IAC 2-2]**

The use of VOC, including coatings, dilution solvents, and cleaning solvents from the surface coating facilities shall be less than two hundred and forty nine (249) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of VOC to less than two-hundred and fifty (250) tons per twelve (12) consecutive month period for the entire source. Compliance with this limit shall render the requirements of 326 IAC 2-2, PSD, not applicable.

#### **D.1.3 Particulate [326 IAC 6.5-1-2]**

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter (PM) from the following spray booths shall be limited to 0.03 grain per dry standard cubic foot (dscf):

- (a) Two (2) electrostatic disc sealer booths, constructed in March 1986, identified as SB6 and SB7;
- (b) Two (2) electrostatic disc stain booths, constructed in March 1986, identified as STB2 and STB3;
- (c) Two (2) electrostatic disc topcoat booths, constructed in March 1986, identified as TCB10 and TCB11;
- (d) One (1) toner booth, constructed in March 1986, identified as TB1;

- (e) One (1) topcoat touch-up booth, constructed in March 1986, identified as TCB9;
- (f) One (1) topcoat touch-up booth, constructed in March 1986, identified as TCB12;
- (g) One (1) sealer touch-up booth, constructed in May 1993, identified as SB8;
- (h) Four (4) manual off-line spray booths, approved for construction in 2007, identified as OFB-1 through OFB-4;
- (i) One (1) manual toner-back spray booth, approved for construction in 2007, identified as TBB-1; and
- (j) One (1) manual pre-seal spray booth, approved for construction in 2007, identified as PSB-1.

#### 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 sixteen (16) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, TCB9, TCB12, SB8, OFB-1 through OFB-4, TBB-1, and PSB-1, and their dry particulate filters.

### **Compliance Determination Requirements**

#### D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

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

#### D.1.6 Particulate Matter (PM/PM<sub>10</sub>) Emissions Control [326 IAC 2-2] [326 IAC 2-1.1-5] [326 IAC 6.5-1-2]

In order to comply with Conditions D.1.3, particulate from each surface coating facilities shall be controlled by a dry particulate filter and the Permittee shall operate the control device in accordance with the manufacturer’s specifications.

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

#### D.1.7 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth Stacks (S1 through S3, ST1 and ST2, TC1 through TC4, OF-1 through OF-4, T1, TB-1, and PS-1) 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 (S1 through S3, ST1 and ST2, TC1 through TC4, OF-1 through OF-4, T1, TB-1, and PS-1) and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

### **D.1.8 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.2, 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 Condition D.1.2. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on a 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 Conditions D.1.7, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### **D.1.9 Reporting Requirements**

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A quarterly summary of the information to document compliance with Conditions D.1.2, shall be submitted to the addresses 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.2

## FACILITY OPERATION CONDITIONS

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

- (a) Woodworking operations, consisting of the following:
- (1) Woodworking operations located at Plant #2, identified as MC14, constructed in 1974, equipped with two (2) baghouses for particulate control, identified as BH-1 and BH-2, one with a maximum air flow rate of 35,000 acfm and a grain loading of 0.01 gr/dscf and one with a maximum air flow rate of 30,000 acfm and a grain loading of 0.01 gr/dscf, exhausting to Stacks C1 and C2, respectively, capacity: 5,950 pounds of wood per hour [326 IAC 6.5-1-2].
  - (2) Woodworking operations located at Plant #3A, identified as MC2, constructed in 1979, equipped with a baghouse for particulate control, identified as BH-3, with a maximum air flow rate of 12,000 acfm and a grain loading of 0.01 gr/dscf, exhausting to Stack C3, capacity: 10,710 pounds of wood per hour [326 IAC 6.5-1-2].

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

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

#### D.2.1 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, particulate matter shall not exceed 0.03 grains per dry standard cubic foot from the two (2) woodworking operations, identified as MC14 and MC2.

#### D.2.2 PM PSD Minor Limitations [326 IAC 2-2]

- (a) The PM emissions from the woodworking operation, identified as MC14, shall not exceed 5.57 pounds per hour.
- (b) The PM emissions from the woodworking operation, identified as MC2, shall not exceed 1.03 pounds per hour.

Compliance with these PM emission limits, in combination with the PM emission limits in Condition D.1.4(a), renders the requirements of 326 IAC 2-2 not applicable.

#### D.2.3 PM<sub>2.5</sub> NSR Nonattainment Limitations and Minor PM<sub>10</sub> Limits [326 IAC 2-1.1-5] [326 IAC 2-2]

- (a) The PM<sub>10</sub> emissions from the woodworking operation, identified as MC14, shall not exceed 5.57 pounds per hour.
- (b) The PM<sub>10</sub> emissions from the woodworking operation, identified as MC2, shall not exceed 1.03 pounds per hour.

Compliance with these PM<sub>10</sub> emission limits, in combination with the PM<sub>10</sub> emission limits in Conditions D.1.5(a) and D.1.5(b), renders the requirements of 326 IAC 2-1.1-5 and 326 IAC 2-2 not applicable since PM<sub>10</sub> emissions are a surrogate for PM<sub>2.5</sub> emissions.

#### D.2.4 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 woodworking operations and their control devices.

## Compliance Determination Requirements

### D.2.5 Particulate Control [326 IAC 2-7-6(6)]

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- (a) In order to comply with Conditions D.2.1 through D.2.3, the baghouses for particulate control shall be in operation and control emissions from the two (2) woodworking operations, identified as MC14 and MC2, at all times that the facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

## Compliance Assurance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

### D.2.6 Visible Emissions Notations

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- (a) Visible emission notations of the two (2) woodworking operations, identified as MC14 and MC2, stack exhausts (Stack C1 through Stack C3) 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.2.7 Baghouse Inspections

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An inspection shall be performed each calendar quarter of all bags controlling the woodworking operation when venting to the atmosphere. All defective bags shall be replaced.

### D.2.8 Broken or Failed Bag Detection

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

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

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

#### **D.2.9 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.6, the Permittee shall maintain a daily record of visible emission notations of the woodworking operations stack exhausts (Stack C1 through C3). 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 woodworking operations did not operate that day).
- (b) To document compliance with Condition D.2.7, the Permittee shall maintain records of the results of the inspections required under Condition D.2.7.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### SECTION D.3

### FACILITY OPERATION CONDITIONS

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

- (a) Emergency Diesel generators not exceeding one thousand six hundred (1,600) horsepower  
Including the following:

One (1) Diesel powered generator with a 535 bhp engine, rated at 350 kW, operated less than 500 hours per year [326 IAC 6.5-1-2].

(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 Particulate Matter (PM) [326 IAC 6.5-1-2]

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Pursuant to 326 IAC 6.5-1-2, particulate matter shall not exceed 0.03 grains per dry standard cubic foot from the Diesel powered emergency generator.

## SECTION E.1

## FACILITY OPERATION CONDITIONS

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

- (a) Two (2) electrostatic disc sealer booths, identified as SB6 and SB7, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and with dry filters for particulate control, exhausting to Stacks S1 and S2, capacity: 4,800 wood units per hour, total.
- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, with STB2 exhausting to ST2 and STB3 exhausting to stacks ST1A and ST1B, capacity: 4800 wood units per hour, total.
- (c) Two (2) electrostatic disc topcoat booths, identified as TCB10 and TCB11, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stacks TC1 and TC2, capacity: 4800 wood units per hour, total.
- (d) One (1) toner booth, identified as TB1, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and electrostatic guns (air assisted airless) and dry filters for particulate control, exhausting to Stack T1, capacity: 4800 wood units per hour.
- (e) Two (2) topcoat touch-up booths, identified as TCB9 and TCB12, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stacks TC3 and TC4, capacity: 4800 wood units per hour, total.
- (f) One (1) sealer touch-up booth, identified as SB8, constructed in May 1993, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stack S3, capacity: 4800 wood units per hour.
- (g) Four (4) manual off-line spray booths, constructed in 2007, identified as OFB-1 through OFB-4, equipped with air atomization spray guns and dry filters for particulate control, exhausting to Stack OF-1 through OF-4, capacity: 70 wood units per hour, each.
- (h) One (1) manual toner-back spray booth, constructed in 2007, identified as TBB-1, equipped with air atomization spray guns and dry filters for particulate control, exhausting to Stack TB-1, capacity: 350 wood units per hour.
- (i) One (1) manual pre-seal spray booth, constructed in 2007, identified as PSB-1, equipped with air atomization spray guns and dry filters for particulate control, exhausting to Stack PS-1, capacity: 175 wood 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)]

#### E.1.1 General Provisions Relating to NESHAP JJ [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.4501 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the fifteen (15) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, SB8, TCB9 and TCB12, OFB-1 through OFB-4, TBB-1, and PSB-1, as specified in Table 1 of 40 CFR Part 63, Subpart JJ in accordance with the schedule in 40 CFR 63 Subpart JJ.

#### E.1.2 NESHAP JJ Requirements [40 CFR Part 63, Subpart JJ] [326 IAC 20-14]

Pursuant to 40 CFR Part 63, Subpart JJ, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart JJ, which are incorporated by reference as 326 IAC 20-14 for the fifteen (15) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, SB8, TCB9 and TCB12, OFB-1 through OFB-4, TBB-1, and PSB-1, as specified as follows.

**§ 63.800 Applicability.**

(a) The affected source to which this subpart applies is each facility that is engaged, either in part or in whole, in the manufacture of wood furniture or wood furniture components and that is located at a plant site that is a major source as defined in 40 CFR part 63, subpart A, §63.2. The owner or operator of a source that meets the definition for an incidental wood furniture manufacturer shall maintain purchase or usage records demonstrating that the source meets the definition in §63.801 of this subpart, but the source shall not be subject to any other provisions of this subpart.

d) Owners or operators of affected sources shall also comply with the requirements of subpart A of this part (General Provisions), according to the applicability of subpart A to such sources, as identified in Table 1 of this subpart.

(e) The compliance date for existing affected sources that emit less than 50 tons per year of HAP in 1996 is December 7, 1998. The compliance date for existing affected sources that emit 50 tons or more of hazardous air pollutants in 1996 is November 21, 1997. The owner or operator of an existing area source that increases its emissions of (or its potential to emit) HAP such that the source becomes a major source that is subject to this subpart shall comply with this subpart one year after becoming a major source.

**§ 63.801 Definitions.**

(a) All terms used in this subpart that are not defined below have the meaning given to them in the CAA and in subpart A (General Provisions) of this part.

*Adhesive* means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means. Under this subpart, adhesives shall not be considered coatings or finishing materials. 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.

*Administrator* means the Administrator of the United States Environmental Protection Agency or his or her authorized representative.

*Aerosol adhesive* means an adhesive that is dispensed from a pressurized container as a suspension of fine solid or liquid particles in gas.

*Affected source* means a wood furniture manufacturing facility that is engaged, either in part or in whole, in the manufacture of wood furniture or wood furniture components and that is located at a plant site that is a major source as defined in 40 CFR part 63.2, excluding sources that meet the criteria established in §63.800(a), (b) and (c) of this subpart.

*Alternative method* means any method of sampling and analyzing for an air pollutant that is not a reference or equivalent method but has been demonstrated to the Administrator's satisfaction to, in specific cases, produce results adequate for a determination of compliance.

*As applied* means the HAP and solids content of the coating or contact adhesive that is actually used for coating or gluing the substrate. It includes the contribution of materials used for in-house dilution of the coating or contact adhesive.

*Basecoat* means a coat of colored material, usually opaque, that is applied before graining inks, glazing coats, or other opaque finishing materials, and is usually topcoated for protection.

*Baseline conditions* means the conditions that exist prior to an affected source implementing controls, such as a control system.

*Building enclosure* means a building housing a process that meets the requirements of a temporary total enclosure. The EPA Method 204E is used to identify all emission points from the building enclosure and to determine which emission points must be tested. For additional information see *Guidelines for Determining Capture Efficiency*, January 1994. Docket No. A-93-10, Item No. IV-B-1.

*Capture device* means a hood, enclosed room, floor sweep, or other means of collecting solvent emissions or other pollutants into a duct so that the pollutant can be directed to a pollution control device such as an incinerator or carbon adsorber.

*Capture efficiency* means the fraction of all organic vapors generated by a process that are directed to a control device.

*Certified product data sheet (CPDS)* means documentation furnished by coating or adhesive suppliers or an outside laboratory that provides:

(1) The VHAP content of a finishing material, contact adhesive, or solvent, by percent weight, measured using the EPA Method 311 (as promulgated in this subpart), or an equivalent or alternative method (or formulation data if the coating meets the criteria specified in §63.805(a));

(2) The solids content of a finishing material or contact adhesive by percent weight, determined using data from the EPA Method 24, or an alternative or equivalent method (or formulation data if the coating meets the criteria specified in §63.805 (a)); and

(3) The density, measured by EPA Method 24 or an alternative or equivalent method. Therefore, the reportable VHAP content shall represent the maximum aggregate emissions potential of the finishing material, adhesive, or solvent in concentrations greater than or equal to 1.0 percent by weight or 0.1 percent for VHAP that are carcinogens, as defined by the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR part 1910), as formulated. Only VHAP present in concentrations greater than or equal to 1.0 percent by weight, or 0.1 percent for VHAP that are carcinogens, must be reported on the CPDS. The purpose of the CPDS is to assist the affected source in demonstrating compliance with the emission limitations presented in §63.802.

Note: Because the optimum analytical conditions under EPA Method 311 vary by coating, the coating or adhesive supplier may also choose to include on the CPDS the optimum analytical conditions for analysis of the coating, adhesive, or solvent using EPA Method 311. Such information may include, but not be limited to, separation column, oven temperature, carrier gas, injection port temperature, extraction solvent, and internal standard.)

*Cleaning operations* means operations in which organic HAP solvent is used to remove coating materials or adhesives from equipment used in wood furniture manufacturing operations.

*Coating* means a protective, decorative, or functional film applied in a thin layer to a surface. Such materials include, but are not limited to, paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, enamels, inks, and temporary protective coatings. Aerosol spray paints used for touch-up and repair are not considered coatings under this subpart.

*Coating application station* means the part of a coating operation where the coating is applied, e.g., a spray booth.

*Coating operation* means those activities in which a coating is applied to a substrate and is subsequently air-dried, cured in an oven, or cured by radiation.

*Coating solids (or solids)* means the part of the coating which remains after the coating is dried or cured; solids content is determined using data from the EPA Method 24, or an equivalent or alternative method.

*Compliant coating/contact adhesive* means a finishing material, contact adhesive, or strippable booth coating that meets the emission limits specified in Table 3 of this subpart.

*Contact adhesive* means an adhesive that is applied to two substrates, dried, and mated under only enough pressure to result in good contact. The bond is immediate and sufficiently strong to hold pieces together without further clamping, pressure, or airing.

*Continuous coater* means a finishing system that continuously applies finishing materials onto furniture parts moving along a conveyor. Finishing materials that are not transferred to the part are recycled to a reservoir. Several types of application methods can be used with a continuous coater including spraying, curtain coating, roll coating, dip coating, and flow coating.

*Continuous compliance* means that the affected source is meeting the emission limitations and other requirements of the rule at all times and is fulfilling all monitoring and recordkeeping provisions of the rule in order to demonstrate compliance.

*Control device* means any equipment that reduces the quantity of a pollutant that is emitted to the air. The device may destroy or secure the pollutant for subsequent recovery. Includes, but is not limited to, incinerators, carbon adsorbers, and condensers.

*Control device efficiency* means the ratio of the pollutant released by a control device and the pollutant introduced to the control device.

*Control system* means the combination of capture and control devices used to reduce emissions to the atmosphere.

*Conventional air spray* means a spray coating method in which the coating is atomized by mixing it with compressed air and applied at an air pressure greater than 10 pounds per square inch (gauge) at the point of atomization. Airless and air assisted airless spray technologies are not conventional air spray because the coating is not atomized by mixing it with compressed air. Electrostatic spray technology is also not considered conventional air spray because an electrostatic charge is employed to attract the coating to the workpiece.

*Data quality objective (DQO) approach* means a set of approval criteria that must be met so that data from an alternative test method can be used in determining the capture efficiency of a control system. For additional information, see *Guidelines for Determining Capture Efficiency*, January 1994. (Docket No. A-93-10, Item No. IV-B-1).

*Day* means a period of 24 consecutive hours beginning at midnight local time, or beginning at a time consistent with a facility's operating schedule.

*Disposed offsite* means sending used organic HAP solvent or coatings outside of the facility boundaries for disposal.

*Emission* means the release or discharge, whether directly or indirectly, of HAP into the ambient air.

*Enamel* means a coat of colored material, usually opaque, that is applied as a protective topcoat over a basecoat, primer, or previously applied enamel coats. In some cases, another finishing material may be applied as a topcoat over the enamel.

*Equipment leak* means emissions of VHAP from pumps, valves, flanges, or other equipment used to transfer or apply coatings, adhesives, or organic HAP solvents.

*Equivalent method* means any method of sampling and analyzing for an air pollutant that has been demonstrated to the Administrator's satisfaction to have a consistent and quantitatively known relationship to the reference method, under specific conditions.

*Finishing material* means a coating used in the wood furniture industry. Such materials include, but are not limited to, stains, basecoats, washcoats, enamels, sealers, and topcoats.

*Finishing operation* means those operations in which a finishing material is applied to a substrate and is subsequently air-dried, cured in an oven, or cured by radiation.

*Foam adhesive* means a contact adhesive used for gluing foam to fabric, foam to foam, and fabric to wood.

*Gluing operation* means those operations in which adhesives are used to join components, for example, to apply a laminate to a wood substrate or foam to fabric.

*Incidental wood furniture manufacturer* means a major source that is primarily engaged in the manufacture of products other than wood furniture or wood furniture components and that uses no more than 100 gallons per month of finishing material or adhesives in the manufacture of wood furniture or wood furniture components.

*Incinerator* means, for the purposes of this industry, an enclosed combustion device that thermally oxidizes volatile organic compounds to CO and CO<sub>2</sub>. This term does not include devices that burn municipal or hazardous waste material.

*Janitorial maintenance* means the upkeep of equipment or building structures that is not directly related to the manufacturing process, for example, cleaning of restroom facilities.

*Lower confidence limit (LCL) approach* means a set of approval criteria that must be met so that data from an alternative test method can be used in determining the capture efficiency of a control system. For additional information, see *Guidelines for Determining Capture Efficiency*, January 1994. (Docket No. A-93-10, Item No. IV-B-1).

*Material safety data sheet (MSDS)* means the documentation required for hazardous chemicals by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR Part 1910) for a solvent, cleaning material, contact adhesive, coating, or other material that identifies select reportable hazardous ingredients of the material, safety and health considerations, and handling procedures.

*Noncompliant coating/contact adhesive* means a finishing material, contact adhesive, or strippable booth coating that has a VHAP content (VOC content for the strippable booth coating) greater than the emission limitation presented in Table 3 of this subpart.

*Nonporous substrate* means a surface that is impermeable to liquids. Examples include metal, rigid plastic, flexible vinyl, and rubber.

*Normally closed container* means a container that is closed unless an operator is actively engaged in activities such as emptying or filling the container.

*Operating parameter value* means a minimum or maximum value established for a control device or process parameter that, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator has complied with an applicable emission limit.

*Organic HAP solvent* means a HAP that is a volatile organic liquid used for dissolving or dispersing constituents in a coating or contact adhesive, adjusting the viscosity of a coating or contact adhesive, or cleaning equipment. When used in a coating or contact adhesive, the organic HAP solvent evaporates during drying and does not become a part of the dried film.

*Overall control efficiency* means the efficiency of a control system, calculated as the product of the capture and control device efficiencies, expressed as a percentage.

*Permanent total enclosure* means a permanently installed enclosure that completely surrounds a source of emissions such that all emissions are captured and contained for discharge through a control device. For additional information, see *Guidelines for Determining Capture Efficiency*, January 1994. (Docket No. A-93-10, Item No. IV-B-1).

*Recycled onsite* means the reuse of an organic HAP solvent in a process other than cleaning or washoff.

*Reference method* means any method of sampling and analyzing for an air pollutant that is published in Appendix A of 40 CFR part 60.

*Research or laboratory facility* means any stationary source whose primary purpose is to conduct research and development to develop new processes and products where such source is operated under the close supervision of technically trained personnel and is not engaged in the manufacture of products for commercial sale in commerce, except in a de minimis manner.

*Responsible official* has the meaning given to it in 40 CFR part 70, State Operating Permit Programs (Title V permits).

*Sealer* means a finishing material used to seal the pores of a wood substrate before additional coats of finishing material are applied. Special purpose finishing materials that are used in some finishing systems to optimize aesthetics are not sealers.

*Solvent* means a liquid used in a coating or contact adhesive to dissolve or disperse constituents and/or to adjust viscosity. It evaporates during drying and does not become a part of the dried film.

*Stain* means any color coat having a solids content by weight of no more than 8.0 percent that is applied in single or multiple coats directly to the substrate. It includes, but is not limited to, nongrain raising stains, equalizer stains, prestains, sap stains, body stains, no-wipe stains, penetrating stains, and toners.

*Storage containers* means vessels or tanks, including mix equipment, used to hold finishing, gluing, cleaning, or washoff materials.

*Stripable spray booth material* means a coating that:

- (1) Is applied to a spray booth wall to provide a protective film to receive over spray during finishing operations;
- (2) That is subsequently peeled off and disposed; and
- (3) By achieving (1) and (2) of this definition reduces or eliminates the need to use organic HAP solvents to clean spray booth walls.

*Substrate* means the surface onto which a coating or contact adhesive is applied (or into which a coating or contact adhesive is impregnated).

*Temporary total enclosure* means an enclosure that meets the requirements of §63.805(e)(1) (i) through (iv) and is not permanent, but constructed only to measure the capture efficiency of pollutants emitted from a given source. Additionally, any exhaust point from the enclosure shall be at least four equivalent duct or hood diameters from each natural draft opening. For additional information, see *Guidelines for Determining Capture Efficiency*, January 1994. (Docket No. A-93-10, Item No. IV-B-1).

*Thinner* means a volatile liquid that is used to dilute coatings or contact adhesives (to reduce viscosity, color strength, and solids, or to modify drying conditions).

*Topcoat* means the last film-building finishing material that is applied in a finishing system.

*Touchup and repair* means the application of finishing materials to cover minor finishing imperfections.

*VHAP* means any volatile hazardous air pollutant listed in Table 2 to Subpart JJ.

*VHAP of potential concern* means any VHAP from the list in table 6 of this subpart.

*Volatile organic compound (VOC)* means any organic compound which participates in atmospheric photochemical reactions, that is, any organic compound other than those which the Administrator designates as having negligible photochemical reactivity. A VOC may be measured by a reference method, an equivalent method, an alternative method, or by procedures specified under any rule. A reference method, an equivalent method, or an alternative method, however, may also measure nonreactive organic compounds. In such cases, the owner or operator may exclude the nonreactive organic compounds when determining compliance with a standard. For a list of compounds that the Administrator has designated as having negligible photochemical reactivity, refer to 40 CFR part 51.10.

*Washcoat* means a transparent special purpose finishing material having a solids content by weight of 12.0 percent by weight or less. Washcoats are applied over initial stains to protect, to control color, and to stiffen the wood fibers in order to aid sanding.

*Washoff operations* means those operations in which organic HAP solvent is used to remove coating from wood furniture or a wood furniture component.

*Wood furniture* means any product made of wood, a wood product such as rattan or wicker, or an engineered wood product such as particleboard that is manufactured under any of the following standard industrial classification codes: 2434, 2511, 2512, 2517, 2519, 2521, 2531, 2541, 2599, or 5712.

*Wood furniture component* means any part that is used in the manufacture of wood furniture. Examples include, but are not limited to, drawer sides, cabinet doors, seat cushions, and laminated tops. However, foam seat cushions manufactured and fabricated at a facility that does not engage in any other wood furniture or wood furniture component manufacturing operation are excluded from this definition.

*Wood furniture manufacturing operations* means the finishing, gluing, cleaning, and washoff operations associated with the production of wood furniture or wood furniture components.

(b) The nomenclature used in this subpart has the following meaning:

- (1)  $A_k$  = the area of each natural draft opening (k) in a total enclosure, in square meters.

(2)  $C_c$ =the VHAP content of a finishing material (c), in kilograms of volatile hazardous air pollutants per kilogram of coating solids (kg VHAP/kg solids), as supplied. Also given in pounds of volatile hazardous air pollutants per pound of coating solids (lb VHAP/lb solids).

(3)  $C_{aj}$ =the concentration of VHAP in gas stream (j) exiting the control device, in parts per million by volume.

(4)  $C_{bi}$ =the concentration of VHAP in gas stream (i) entering the control device, in parts per million by volume.

(5)  $C_{di}$ =the concentration of VHAP in gas stream (i) entering the control device from the affected source, in parts per million by volume.

(6)  $C_{fk}$ =the concentration of VHAP in uncontrolled gas stream (k) emitted directly to the atmosphere from the affected source, in parts per million by volume.

(7) E=the emission limit achieved by an emission point or a set of emission points, in kg VHAP/kg solids (lb VHAP/lb solids).

(8) F=the control device efficiency, expressed as a fraction.

(9) FV=the average inward face velocity across all natural draft openings in a total enclosure, in meters per hour.

(10) G=the VHAP content of a contact adhesive, in kg VHAP/kg solids (lb VHAP/lb solids), as applied.

(11) M=the mass of solids in finishing material used monthly, kg solids/month (lb solids/month).

(12) N=the capture efficiency, expressed as a fraction.

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

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

(15)  $Q_{di}$ =the volumetric flow rate of gas stream (i) entering the control device from the emission point, in dry standard cubic meters per hour.

(16)  $Q_{fk}$ =the volumetric flow rate of uncontrolled gas stream (k) emitted directly to the atmosphere from the emission point, in dry standard cubic meters per hour.

(17)  $Q_{ini}$ =the volumetric flow rate of gas stream (i) entering the total enclosure through a forced makeup air duct, in standard cubic meters per hour (wet basis).

(18)  $Q_{outj}$ =the volumetric flow rate of gas stream (j) exiting the total enclosure through an exhaust duct or hood, in standard cubic meters per hour (wet basis).

(19) R=the overall efficiency of the control system, expressed as a percentage.

(20) S=the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials.

(21) W=the amount of solvent, in kilograms (pounds), added to finishing materials during the monthly averaging period.

(22) ac=after the control system is installed and operated.

(23) bc=before control.

[60 FR 62936, Dec. 7, 1995, as amended at 62 FR 30260, June 3, 1997; 62 FR 31363, June 9, 1997; 63 FR 71380, Dec. 28, 1998]

### **§ 63.802 Emission limits.**

(a) Each owner or operator of an existing affected source subject to this subpart shall:

(1) Limit VHAP emissions from finishing operations by meeting the emission limitations for existing sources presented in Table 3 of this subpart, using any of the compliance methods in §63.804(a). To determine VHAP emissions from a

finishing material containing formaldehyde or styrene, the owner or operator of the affected source shall use the methods presented in §63.803(l)(2) for determining styrene and formaldehyde usage.

(2) Limit VHAP emissions from contact adhesives by achieving a VHAP limit for contact adhesives based on the following criteria:

(i) For foam adhesives (contact adhesives used for upholstery operations) used in products that meet the upholstered seating flammability requirements of California Technical Bulletin 116, 117, or 133, the Business and Institutional Furniture Manufacturers Association's (BIFMA's) X5.7, UFAC flammability testing, or any similar requirements from local, State, or Federal fire regulatory agencies, the VHAP content of the adhesive shall not exceed 1.8 kg VHAP/kg solids (1.8 lb VHAP/lb solids), as applied; or

(ii) For all other contact adhesives (including foam adhesives used in products that do not meet the standards presented in paragraph (a)(2)(i) of this section, but excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates, the VHAP content of the adhesive shall not exceed 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied.

**§ 63.803 Work practice standards.**

(a) *Work practice implementation plan.* (1) Each owner or operator of an affected source subject to this subpart shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture operation manufacturing operation and addresses each of the work practice standards presented in paragraphs (b) through (l) of this section. The plan shall be developed no more than 60 days after the compliance date.

(2) The written work practice implementation plan shall be available for inspection by the Administrator (or delegated State, local, or Tribal authority) upon request. If the Administrator (or delegated State, local, or Tribal authority) determines that the work practice implementation plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Administrator (or delegated State, local, or Tribal authority) may require the affected source to modify the plan. Revisions or modifications to the plan do not require a revision of the source's Title V permit.

(3) The inspection and maintenance plan required by paragraph (c) of this section and the formulation assessment plan for finishing operations required by paragraph (l) of this section are also reviewable by the Administrator (or delegated State, local, or Tribal authority).

(b) *Operator training course.* Each owner or operator of an affected source shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and washoff operations, use of manufacturing equipment, or implementation of the requirements of this subpart. All new personnel, those hired after the compliance date of the standard, shall be trained upon hiring. All existing personnel, those hired before the compliance date of the standard, shall be trained within six months of the compliance date of the standard. All personnel shall be given refresher training annually. The affected source shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, the following:

(1) A list of all current personnel by name and job description that are required to be trained;

(2) An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel;

(3) Lesson plans for courses to be given at the initial and the annual refresher training that include, at a minimum, appropriate application techniques, appropriate cleaning and washoff procedures, appropriate equipment setup and adjustment to minimize finishing material usage and overspray, and appropriate management of cleanup wastes; and

(4) A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.

(c) *Inspection and maintenance plan.* Each owner or operator of an affected source shall prepare and maintain with the work practice implementation plan a written leak inspection and maintenance plan that specifies:

(1) A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives, or organic HAP solvents;

(2) An inspection schedule;

- (3) Methods for documenting the date and results of each inspection and any repairs that were made;
- (4) The timeframe between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:
- (i) A first attempt at repair (e.g., tightening of packing glands) shall be made no later than five calendar days after the leak is detected; and
- (ii) Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within three months.
- (d) *Cleaning and washoff solvent accounting system.* Each owner or operator of an affected source shall develop an organic HAP solvent accounting form to record:
- (1) The quantity and type of organic HAP solvent used each month for washoff and cleaning, as defined in §63.801 of this subpart;
- (2) The number of pieces washed off, and the reason for the washoff; and
- (3) The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.
- (e) *Chemical composition of cleaning and washoff solvents.* Each owner or operator of an affected source shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table 4 to this subpart, in concentrations subject to MSDS reporting as required by OSHA.
- (f) *Spray booth cleaning.* Each owner or operator of an affected source shall not use compounds containing more than 8.0 percent by weight of VOC for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters unless the spray booth is being refurbished. If the spray booth is being refurbished, that is the spray booth coating or other protective material used to cover the booth is being replaced, the affected source shall use no more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.
- (g) *Storage requirements.* Each owner or operator of an affected source shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials.
- (h) *Application equipment requirements.* Each owner or operator of an affected source shall use conventional air spray guns to apply finishing materials only under any of the following circumstances:
- (1) To apply finishing materials that have a VOC content no greater than 1.0 lb VOC/lb solids, as applied;
- (2) For touchup and repair under the following conditions:
- (i) The touchup and repair occurs after completion of the finishing operation; or
- (ii) The touchup and repair occurs after the application of stain and before the application of any other type of finishing material, and the materials used for touchup and repair are applied from a container that has a volume of no more than 2.0 gallons.
- (3) When spray is automated, that is, the spray gun is aimed and triggered automatically, not manually;
- (4) When emissions from the finishing application station are directed to a control device;
- (5) The conventional air gun is used to apply finishing materials and the cumulative total usage of that finishing material is no more than 5.0 percent of the total gallons of finishing material used during that semiannual period; or
- (6) The conventional air gun is used to apply stain on a part for which it is technically or economically infeasible to use any other spray application technology.

The affected source shall demonstrate technical or economic infeasibility by submitting to the Administrator a videotape, a technical report, or other documentation that supports the affected source's claim of technical or

economic infeasibility. The following criteria shall be used, either independently or in combination, to support the affected source's claim of technical or economic infeasibility:

- (i) The production speed is too high or the part shape is too complex for one operator to coat the part and the application station is not large enough to accommodate an additional operator; or
  - (ii) The excessively large vertical spray area of the part makes it difficult to avoid sagging or runs in the stain.
- (i) *Line cleaning.* Each owner or operator of an affected source shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.
- (j) *Gun cleaning.* Each owner or operator of an affected source shall collect all organic HAP solvent used to clean spray guns into a normally closed container.
- (k) *Washoff operations.* Each owner or operator of an affected source shall control emissions from washoff operations by:
- (1) Using normally closed tanks for washoff; and
  - (2) Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.
- (l) *Formulation assessment plan for finishing operations.* Each owner or operator of an affected source shall prepare and maintain with the work practice implementation plan a formulation assessment plan that:
- (1) Identifies VHAP from the list presented in Table 5 of this subpart that are being used in finishing operations by the affected source;
  - (2) Establishes a baseline level of usage by the affected source, for each VHAP identified in paragraph (l)(1) of this section. The baseline usage level shall be the highest annual usage from 1994, 1995, or 1996, for each VHAP identified in paragraph (l)(1) of this section. For formaldehyde, the baseline level of usage shall be based on the amount of free formaldehyde present in the finishing material when it is applied. For styrene, the baseline level of usage shall be an estimate of unreacted styrene, which shall be calculated by multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16. Sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the equation in §63.805 (d) or (e).
  - (3) Tracks the annual usage of each VHAP identified in (l)(1) by the affected source that is present in amounts subject to MSDS reporting as required by OSHA.
  - (4) If, after November 1998, the annual usage of the VHAP identified in paragraph (l)(1) exceeds its baseline level, then the owner or operator of the affected source shall provide a written notification to the permitting authority that describes the amount of the increase and explains the reasons for exceedance of the baseline level. The following explanations would relieve the owner or operator from further action, unless the affected source is not in compliance with any State regulations or requirements for that VHAP:
    - (i) The exceedance is no more than 15.0 percent above the baseline level;
    - (ii) Usage of the VHAP is below the de minimis level presented in Table 5 of this subpart for that VHAP (sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the procedures in §63.805 (d) or (e));
    - (iii) The affected source is in compliance with its State's air toxic regulations or guidelines for the VHAP; or
    - (iv) The source of the pollutant is a finishing material with a VOC content of no more than 1.0 kg VOC/kg solids (1.0 lb VOC/lb solids), as applied.
  - (5) If none of the above explanations are the reason for the increase, the owner or operator shall confer with the permitting authority to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality, and marketability of the product, whether the technology is being used successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the permitting authority and owner or operator. If there are no practical and reasonable solutions, the facility need take no further action. If there are

solutions, the owner or operator shall develop a plan to reduce usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan, and a schedule for submitting notification of progress.

(6) If, after November 1998, an affected source uses a VHAP of potential concern listed in table 6 of this subpart for which a baseline level has not been previously established, then the baseline level shall be established as the *de minimis* level provided in that same table for that chemical. The affected source shall track the annual usage of each VHAP of potential concern identified in this paragraph that is present in amounts subject to MSDS reporting as required by OSHA. If usage of the VHAP of potential concern exceeds the *de minimis* level listed in table 6 of this subpart for that chemical, then the affected source shall provide an explanation to the permitting authority that documents the reason for the exceedance of the *de minimis* level. If the explanation is not one of those listed in paragraphs (l)(4)(i) through (l)(4)(iv) of this section, the affected source shall follow the procedures in paragraph (l)(5) of this section.

[60 FR 62936, Dec. 7, 1995, as amended at 63 FR 71380, Dec. 28, 1998; 68 FR 37353, June 23, 2003]

**§ 63.804 Compliance procedures and monitoring requirements.**

(a) The owner or operator of an existing affected source subject to §63.802(a)(1) shall comply with those provisions using any of the methods presented in §63.804 (a)(1) through (a)(4).

(1) Calculate the average VHAP content for all finishing materials used at the facility using Equation 1, and maintain a value of E no greater than 1.0;

$$E = (M_{c1}C_{c1} + M_{c2}C_{c2} + \dots + M_{cn}C_{cn} + S_1W_1 + S_2W_2 + \dots + S_nW_n) / (M_{c1} + M_{c2} + \dots + M_{cn}) \quad \text{Equation 1}$$

(2) Use compliant finishing materials according to the following criteria:

(i) Demonstrate that each stain, sealer, and topcoat has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight by maintaining certified product data sheets for each coating and thinner;

(ii) Demonstrate that each washcoat, basecoat, and enamel that is purchased pre-made, that is, it is not formulated onsite by thinning another finishing material, has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight by maintaining certified product data sheets for each coating and thinner; and

(iii) Demonstrate that each washcoat, basecoat, and enamel that is formulated at the affected source is formulated using a finishing material containing no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids) and a thinner containing no more than 3.0 percent VHAP by weight.

(3) Use a control system with an overall control efficiency (R) such that the value of  $E_{ac}$  in Equation 2 is no greater than 1.0.

$$R = [(E_{bc} - E_{ac}) / E_{bc}] (100) \quad \text{Equation 2}$$

The value of  $E_{bc}$  in Equation 2 shall be calculated using Equation 1; or

(4) Use any combination of an averaging approach, as described in paragraph (a)(1) of this section, compliant finishing materials, as described in paragraph (a)(2) of this section, and a control system, as described in paragraph (a)(3) of this section.

(b) The owner or operator of an affected source subject to §63.802(a)(2)(i) shall comply with the provisions by using compliant foam adhesives with a VHAP content no greater than 1.8 kg VHAP/kg solids (1.8 lb VHAP/lb solids), as applied.

(c) The owner or operator of an affected source subject to §63.802(a)(2)(ii) shall comply with those provisions by using either of the methods presented in §63.804 (c)(1) and (c)(2).

(1) Use compliant contact adhesives with a VHAP content no greater than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied; or

(2) Use a control system with an overall control efficiency (R) such that the value of  $G_{ac}$  is no greater than 1.0.

$$R = [(G_{bc} - G_{ac}) / G_{bc}] (100) \quad \text{Equation 3}$$

(f) *Initial compliance.* (1) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that comply through the procedures established in §63.804 (a)(1) or (d)(1) shall submit the results of the averaging calculation (Equation 1) for the first month with the initial compliance status report required by §63.807(b). The first month's calculation shall include data for the entire month in which the compliance date falls. For example, if the source's compliance date is November 21, 1997, the averaging calculation shall include data from November 1, 1997 to November 30, 1997.

(2) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that comply through the procedures established in §63.804 (a)(2) or (d)(2) shall submit an initial compliance status report, as required by §63.807(b), stating that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, are being used by the affected source.

(3) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that are complying through the procedures established in §63.804 (a)(2) or (d)(2) and are applying coatings using continuous coaters shall demonstrate initial compliance by:

(i) Submitting an initial compliance status report, as required by §63.807(b), stating that compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, and compliant thinners are being used; or

(ii) Submitting an initial compliance status report, as required by §63.807(b), stating that compliant coatings, as determined by the VHAP content of the coating in the reservoir, are being used; the viscosity of the coating in the reservoir is being monitored; and compliant thinners are being used. The affected source shall also submit data that demonstrate that viscosity is an appropriate parameter for demonstrating compliance.

(4) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that comply through the procedures established in §63.804 (a)(3) or (d)(3) shall demonstrate initial compliance by:

(i) Submitting a monitoring plan that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance;

(ii) Conducting an initial performance test as required under §63.7 using the procedures and test methods listed in §63.7 and §63.805 (c) and (d) or (e);

(iii) Calculating the overall control efficiency (R) following the procedures in §63.805 (d) or (e); and

(iv) Determining those operating conditions critical to determining compliance and establishing one or more operating parameters that will ensure compliance with the standard.

(A) For compliance with a thermal incinerator, minimum combustion temperature shall be the operating parameter.

(B) For compliance with a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst bed shall be the operating parameter.

(C) For compliance with a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst bed and the pressure drop across the catalyst bed shall be the operating parameters.

(D) For compliance with a carbon adsorber, the operating parameters shall be the total regeneration mass stream flow for each regeneration cycle and the carbon bed temperature after each regeneration, or the concentration level of organic compounds exiting the adsorber, unless the owner or operator requests and receives approval from the Administrator to establish other operating parameters.

(E) For compliance with a control device not listed in this section, one or more operating parameter values shall be established using the procedures identified in §63.804(g)(4)(vi).

(v) Owners or operators complying with §63.804(f)(4) shall calculate each site-specific operating parameter value as the arithmetic average of the maximum or minimum operating parameter values, as appropriate, that demonstrate compliance with the standards, during the three test runs required by §63.805(c)(1).

(5) Owners or operators of an affected source subject to the provisions of §63.802 (a)(2) or (b)(2) that comply through the procedures established in §63.804 (b), (c)(1), or (e)(1), shall submit an initial compliance status report, as required by §63.807(b), stating that compliant contact adhesives are being used by the affected source.

(6) Owners or operators of an affected source subject to the provisions of §63.802 (a)(2)(ii) or (b)(2) that comply through the procedures established in §63.804 (c)(2) or (e)(2), shall demonstrate initial compliance by:

(i) Submitting a monitoring plan that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance;

(ii) Conducting an initial performance test as required under §63.7 using the procedures and test methods listed in §63.7 and §63.805 (c) and (d) or (e);

(iii) Calculating the overall control efficiency (R) following the procedures in §63.805 (d) or (e); and

(iv) Determining those operating conditions critical to determining compliance and establishing one or more operating parameters that will ensure compliance with the standard.

(A) For compliance with a thermal incinerator, minimum combustion temperature shall be the operating parameter.

(B) For compliance with a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst shall be the operating parameter.

(C) For compliance with a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst bed and the pressure drop across the catalyst bed shall be the operating parameters.

(v) Owners or operators complying with §63.804(f)(6) shall calculate each site-specific operating parameter value as the arithmetic average of the maximum or minimum operating values as appropriate, that demonstrate compliance with the standards, during the three test runs required by §63.805(c)(1).

(7) Owners or operators of an affected source subject to the provisions of §63.802 (a)(3) or (b)(3) shall submit an initial compliance status report, as required by §63.807(b), stating that compliant strippable spray booth coatings are being used by the affected source.

(8) Owners or operators of an affected source subject to the work practice standards in §63.803 shall submit an initial compliance status report, as required by §63.807(b), stating that the work practice implementation plan has been developed and procedures have been established for implementing the provisions of the plan.

(g) *Continuous compliance demonstrations.* (1) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that comply through the procedures established in §63.804 (a)(1) or (d)(1) shall demonstrate continuous compliance by submitting the results of the averaging calculation (Equation 1) for each month within that semiannual period and submitting a compliance certification with the semiannual report required by §63.807(c).

(i) The compliance certification shall state that the value of (E), as calculated by Equation 1, is no greater than 1.0 for existing sources or 0.8 for new sources. An affected source is in violation of the standard if E is greater than 1.0 for existing sources or 0.8 for new sources for any month. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.

(ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

(2) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that comply through the procedures established in §63.804 (a)(2) or (d)(2) shall demonstrate continuous compliance by using compliant coatings and thinners, maintaining records that demonstrate the coatings and thinners are compliant, and submitting a compliance certification with the semiannual report required by §63.807(c).

(i) The compliance certification shall state that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.

(ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

(3) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that are complying through the procedures established in §63.804 (a)(2) or (d)(2) and are applying coatings using continuous coaters shall demonstrate continuous compliance by following the procedures in paragraph (g)(3) (i) or (ii) of this section.

(i) Using compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, using compliant thinners, and submitting a compliance certification with the semiannual report required by §63.807(c).

(A) The compliance certification shall state that compliant coatings have been used each day in the semiannual reporting period, or should otherwise identify the days of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as determined by records or by a sample of the coating, is used. Use of a noncompliant coating is a separate violation for each day the noncompliant coating is used.

(B) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

(ii) Using compliant coatings, as determined by the VHAP content of the coating in the reservoir, using compliant thinners, maintaining a viscosity of the coating in the reservoir that is no less than the viscosity of the initial coating by monitoring the viscosity with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added, maintaining records of solvent additions, and submitting a compliance certification with the semiannual report required by §63.807(c).

(A) The compliance certification shall state that compliant coatings, as determined by the VHAP content of the coating in the reservoir, have been used each day in the semiannual reporting period. Additionally, the certification shall state that the viscosity of the coating in the reservoir has not been less than the viscosity of the initial coating, that is, the coating that is initially mixed and placed in the reservoir, for any day in the semiannual reporting period.

(B) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

(C) An affected source is in violation of the standard when a sample of the as-applied coating exceeds the applicable limit established in §63.804 (a)(2) or (d)(2), as determined using EPA Method 311, or the viscosity of the coating in the reservoir is less than the viscosity of the initial coating.

(4) Owners or operators of an affected source subject to the provisions of §63.802 (a)(1) or (b)(1) that comply through the procedures established in §63.804 (a)(3) or (d)(3) shall demonstrate continuous compliance by installing, calibrating, maintaining, and operating the appropriate monitoring equipment according to manufacturer's specifications. The owner or operator shall also submit the excess emissions and continuous monitoring system performance report and summary report required by §63.807(d) and §63.10(e) of subpart A.

(i) Where a capture/control device is used, a device to monitor each site-specific operating parameter established in accordance with §63.804(f)(6)(i) is required.

(ii) Where an incinerator is used, a temperature monitoring device equipped with a continuous recorder is required.

(A) Where a thermal incinerator is used, a temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.

(B) Where a catalytic incinerator equipped with a fixed catalyst bed is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.

(C) Where a catalytic incinerator equipped with a fluidized catalyst bed is used, a temperature monitoring device shall be installed in the gas stream immediately before the bed. In addition, a pressure monitoring device shall be installed to determine the pressure drop across the catalyst bed. The pressure drop shall be measured monthly at a constant flow rate.

(iii) Where a carbon adsorber is used one of the following is required:

(A) An integrating stream flow monitoring device having an accuracy of  $\pm 10$  percent, capable of recording the total regeneration stream mass flow for each regeneration cycle; and a carbon bed temperature monitoring device, having an accuracy of  $\pm 1$  percent of the temperature being monitored or  $\pm 0.5$  °C, whichever is greater, and capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle;

(B) An organic monitoring device, equipped with a continuous recorder, to indicate the concentration level of organic compounds exiting the carbon adsorber; or

(C) Any other monitoring device that has been approved by the Administrator in accordance with §63.804(f)(4)(iv)(D).

(iv) Owners or operators of an affected source shall not operate the capture or control device at a daily average value greater than or less than (as appropriate) the operating parameter values. The daily average value shall be calculated as the average of all values for a monitored parameter recorded during the operating day.

(v) Owners or operators of an affected source that are complying through the use of a catalytic incinerator equipped with a fluidized catalyst bed shall maintain a constant pressure drop, measured monthly, across the catalyst bed.

(vi) An owner or operator who uses a control device not listed in §63.804(f)(4) shall submit, for the Administrator's approval, a description of the device, test data verifying performance, and appropriate site-specific operating parameters that will be monitored to demonstrate continuous compliance with the standard.

(5) Owners or operators of an affected source subject to the provisions of §63.802 (a)(2) (i) or (ii) or (b)(2) that comply through the procedures established in §63.804 (b), (c)(1), or (e)(1), shall submit a compliance certification with the semiannual report required by §63.807(c).

(i) The compliance certification shall state that compliant contact and/or foam adhesives have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant contact and/or foam adhesives were used. Each day a noncompliant contact or foam adhesive is used is a single violation of the standard.

(ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

(6) Owners or operators of an affected source subject to the provisions of §63.802 (a)(2)(ii) or (b)(2) that comply through the procedures established in §63.804 (c)(2) or (e)(2), shall demonstrate continuous compliance by installing, calibrating, maintaining, and operating the appropriate monitoring equipment according to the manufacturer's specifications. The owner or operator shall also submit the excess emissions and continuous monitoring system performance report and summary report required by §63.807(d) and §63.10(e) of subpart A of this part.

(i) Where a capture/control device is used, a device to monitor each site-specific operating parameter established in accordance with §63.804(f)(6)(i) is required.

(ii) Where an incinerator is used, a temperature monitoring device equipped with a continuous recorder is required.

(A) Where a thermal incinerator is used, a temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.

(B) Where a catalytic incinerator equipped with a fixed catalyst bed is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.

(C) Where a catalytic incinerator equipped with a fluidized catalyst bed is used, a temperature monitoring device shall be installed in the gas stream immediately before the bed. In addition, a pressure monitoring device shall be installed to measure the pressure drop across the catalyst bed. The pressure drop shall be measured monthly at a constant flow rate.

(iii) Where a carbon adsorber is used one of the following is required:

(A) An integrating stream flow monitoring device having an accuracy of  $\pm 10$  percent, capable of recording the total regeneration stream mass flow for each regeneration cycle; and a carbon bed temperature monitoring device, having an accuracy of  $\pm 1$  percent of the temperature being monitored or  $\pm 0.5$  °C, whichever is greater, and capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle;

(B) An organic monitoring device, equipped with a continuous recorder, to indicate the concentration level of organic compounds exiting the carbon adsorber; or

(C) Any other monitoring device that has been approved by the Administrator in accordance with §63.804(f)(4)(iv)(D).

(iv) Owners or operators of an affected source shall not operate the capture or control device at a daily average value greater than or less than (as appropriate) the operating parameter values. The daily average value shall be calculated as the average of all values for a monitored parameter recorded during the operating day.

(v) Owners or operators of an affected source that are complying through the use of a catalytic incinerator equipped with a fluidized catalyst bed shall maintain a constant pressure drop, measured monthly, across the catalyst bed.

(vi) An owner or operator using a control device not listed in this section shall submit to the Administrator a description of the device, test data verifying the performance of the device, and appropriate operating parameter values that will be monitored to demonstrate continuous compliance with the standard. Compliance using this device is subject to the Administrator's approval.

(7) Owners or operators of an affected source subject to the provisions of §63.802 (a)(3) or (b)(3) shall submit a compliance certification with the semiannual report required by §63.807(c).

(i) The compliance certification shall state that compliant strippable spray booth coatings have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant materials were used. Each day a noncompliant strippable booth coating is used is a single violation of the standard.

(ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

(8) Owners or operators of an affected source subject to the work practice standards in §63.803 shall submit a compliance certification with the semiannual report required by §63.807(c).

(i) The compliance certification shall state that the work practice implementation plan is being followed, or should otherwise identify the provisions of the plan that have not been implemented and each day the provisions were not implemented. During any period of time that an owner or operator is required to implement the provisions of the plan, each failure to implement an obligation under the plan during any particular day is a violation.

(ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

**§ 63.805 Performance test methods.**

(a) The EPA Method 311 of appendix A of part 63 shall be used in conjunction with formulation data to determine the VHAP content of the liquid coating. Formulation data shall be used to identify VHAP present in the coating. The EPA Method 311 shall then be used to quantify those VHAP identified through formulation data. The EPA Method 311 shall not be used to quantify HAP such as styrene and formaldehyde that are emitted during the cure. The EPA Method 24 (40 CFR part 60, appendix A) shall be used to determine the solids content by weight and the density of coatings. If it is demonstrated to the satisfaction of the Administrator that a coating does not release VOC or HAP byproducts during the cure, for example, all VOC and HAP present in the coating is solvent, then batch formulation information shall be accepted. The owner or operator of an affected source may request approval from the Administrator to use an alternative method for determining the VHAP content of the coating. In the event of any inconsistency between the EPA Method 24 or Method 311 test data and a facility's formulation data, that is, if the EPA Method 24/311 value is higher, the EPA Method 24/311 test shall govern unless after consultation, a regulated source could demonstrate to the satisfaction of the enforcement agency that the formulation data were correct. Sampling procedures shall follow the guidelines presented in "Standard Procedures for Collection of Coating and Ink Samples for VOC Content Analysis by Reference Method 24 and Reference Method 24A," EPA-340/1-91-010. (Docket No. A-93-10, Item No. IV-A-1).

(b) Owners or operators demonstrating compliance in accordance with §63.804 (f)(4) or (f)(6) and §63.804 (g)(4) or (g)(6), or complying with any of the other emission limits of §63.802 by operating a capture or control device shall determine the overall control efficiency of the control system (R) as the product of the capture and control device efficiency, using the test methods cited in §63.805(c) and the procedures in §63.805 (d) or (e).

(c) When an initial compliance demonstration is required by §63.804 (f)(4) or (f)(6) of this subpart, the procedures in paragraphs (c)(1) through (c)(6) of this section shall be used in determining initial compliance with the provisions of this subpart.

(1) The EPA Method 18 (40 CFR part 60, appendix A) shall be used to determine the HAP concentration of gaseous air streams. The test shall consist of three separate runs, each lasting a minimum of 30 minutes.

(2) The EPA Method 1 or 1A (40 CFR part 60, appendix A) shall be used for sample and velocity traverses.

(3) The EPA Method 2, 2A, 2C, or 2D (40 CFR part 60, appendix A) shall be used to measure velocity and volumetric flow rates.

(4) The EPA Method 3 (40 CFR part 60, appendix A) shall be used to analyze the exhaust gases.

(5) The EPA Method 4 (40 CFR part 60, appendix A) shall be used to measure the moisture in the stack gas.

(6) The EPA Methods 2, 2A, 2C, 2D, 3, and 4 shall be performed, as applicable, at least twice during each test period.

(d) Each owner or operator of an affected source demonstrating compliance in accordance with §63.804 (f)(4) or (f)(6) shall perform a gaseous emission test using the following procedures:

(1) Construct the overall HAP emission reduction system so that all volumetric flow rates and total HAP emissions can be accurately determined by the applicable test methods specified in §63.805(c) (1) through (6);

(2) Determine capture efficiency from the affected emission point(s) by capturing, venting, and measuring all HAP emissions from the affected emission point(s). During a performance test, the owner or operator shall isolate affected emission point(s) located in an area with other nonaffected gaseous emission sources from all other gaseous emission point(s) by any of the following methods:

(i) Build a temporary total enclosure (see §63.801) around the affected emission point(s); or

(ii) Use the building that houses the process as the enclosure (see §63.801);

(iii) Use any alternative protocol and test method provided they meet either the requirements of the data quality objective (DQO) approach or the lower confidence level (LCL) approach (see §63.801);

(iv) Shut down all nonaffected HAP emission point(s) and continue to exhaust fugitive emissions from the affected emission point(s) through any building ventilation system and other room exhausts such as drying ovens. All exhaust air must be vented through stacks suitable for testing; or

(v) Use another methodology approved by the Administrator provided it complies with the EPA criteria for acceptance under part 63, appendix A, Method 301.

(3) Operate the control device with all affected emission points that will subsequently be delivered to the control device connected and operating at maximum production rate;

(4) Determine the efficiency (F) of the control device using the following equation:

$$F = \frac{\sum_{i=1}^n Q_{di} C_{di} - \sum_{j=1}^p Q_{aj} C_{aj}}{\sum_{i=1}^n Q_{di} C_{di}} \quad (\text{Equation 5})$$

(5) Determine the efficiency (N) of the capture system using the following equation:

$$N = \frac{\sum_{i=1}^n Q_{di} C_{di}}{\sum_{i=1}^n Q_{di} C_{di} + \sum_{k=1}^p Q_{fk} C_{fk}} \quad (\text{Equation 6})$$

(6) For each affected source complying with §63.802(a)(1) in accordance with §63.804(a)(3), compliance is demonstrated if the product of  $(F \times N)(100)$  yields a value (R) such that the value of  $E_{ac}$  in Equation 2 is no greater than 1.0.

(7) For each new affected source complying with §63.802(b)(1) in accordance with §63.804(d)(3), compliance is demonstrated if the product of  $(F \times N)(100)$  yields a value (R) such that the value of  $E_{ac}$  in Equation 4 is no greater than 0.8.

(8) For each affected source complying with §63.802(a)(2)(ii) in accordance with §63.804(c)(2), compliance is demonstrated if the product of  $(F \times N)(100)$  yields a value (R) such that the value of  $G_{ac}$  in Equation 3 is no greater than 1.0.

(9) For each new affected source complying with §63.802(b)(2) in accordance with §63.804(e)(2), compliance is demonstrated if the product of  $(F \times N)(100)$  yields a value (R) such that the value of  $G_{ac}$  in Equation 3 is no greater than 0.2.

(e) An alternative method to the compliance method in §63.805(d) is the installation of a permanent total enclosure around the affected emission point(s). A permanent total enclosure presents prima facie evidence that all HAP emissions from the affected emission point(s) are directed to the control device. Each affected source that complies using a permanent total enclosure shall:

(1) Demonstrate that the total enclosure meets the requirements in paragraphs (e)(1) (i) through (iv). The owner or operator of an enclosure that does not meet these requirements may apply to the Administrator for approval of the enclosure as a total enclosure on a case-by-case basis. The enclosure shall be considered a total enclosure if it is demonstrated to the satisfaction of the Administrator that all HAP emissions from the affected emission point(s) are contained and vented to the control device. The requirements for automatic approval are as follows:

(i) The total area of all natural draft openings shall not exceed 5 percent of the total surface area of the total enclosure's walls, floor, and ceiling;

(ii) All sources of emissions within the enclosure shall be a minimum of four equivalent diameters away from each natural draft opening;

(iii) The average inward face velocity (FV) across all natural draft openings shall be a minimum of 3,600 meters per hour as determined by the following procedures:

(A) All forced makeup air ducts and all exhaust ducts are constructed so that the volumetric flow rate in each can be accurately determined by the test methods specified in §63.805 (c)(2) and (3). Volumetric flow rates shall be calculated without the adjustment normally made for moisture content; and

(B) Determine FV by the following equation:

$$FV = \frac{\sum_{j=1}^n Q_{out j} - \sum_{i=1}^p Q_{in i}}{\sum_{k=1}^q A_k} \quad (\text{Equation 7})$$

(iv) All access doors and windows whose areas are not included as natural draft openings and are not included in the calculation of FV shall be closed during routine operation of the process.

(2) Determine the control device efficiency using Equation (5), and the test methods and procedures specified in §63.805 (c)(1) through (6).

(3) For each affected source complying with §63.802(a)(1) in accordance with §63.804(a)(3), compliance is demonstrated if:

(i) The installation of a permanent total enclosure is demonstrated ( $N=1$ );

(ii) The value of F is determined from Equation (5); and

(iii) The product of  $(F \times N)(100)$  yields a value (R) such that the value of  $E_{ac}$  in Equation 2 is no greater than 1.0.

(4) For each new affected source complying with §63.802(b)(1) in accordance with §63.804(d)(3), compliance is demonstrated if:

(i) The installation of a permanent total enclosure is demonstrated ( $N = 1$ );

(ii) The value of F is determined from Equation (5); and

(iii) The product of  $(F \times N)(100)$  yields a value (R) such that the value of  $E_{ac}$  in Equation 4 is no greater than 0.8.

(5) For each affected source complying with §63.802(a)(2)(ii) in accordance with §63.804(c)(2), compliance is demonstrated if:

(i) The installation of a permanent total enclosure is demonstrated ( $N=1$ );

(ii) The value of F is determined from Equation (5); and

(iii) The product of  $(F \times N)(100)$  yields a value (R) such that the value of  $G_{ac}$  in Equation 3 is no greater than 1.0.

(6) For each new affected source complying with §63.802(b)(2) in accordance with §63.804(e)(2), compliance is demonstrated if:

(i) The installation of a permanent total enclosure is demonstrated ( $N=1$ );

(ii) The value of F is determined from Equation (5); and

(iii) The product of  $(F \times N)(100)$  yields a value (R) such that the value of  $G_{ac}$  in Equation 3 is no greater than 0.2.

**§ 63.806 Recordkeeping requirements.**

(a) The owner or operator of an affected source subject to this subpart shall fulfill all recordkeeping requirements of §63.10 of subpart A, according to the applicability criteria in §63.800(d) of this subpart.

(b) The owner or operator of an affected source subject to the emission limits in §63.802 of this subpart shall maintain records of the following:

(1) A certified product data sheet for each finishing material, thinner, contact adhesive, and strippable spray booth coating subject to the emission limits in §63.802; and

(2) The VHAP content, in kg VHAP/kg solids (lb VHAP/lb solids), as applied, of each finishing material and contact adhesive subject to the emission limits in §63.802; and

(3) The VOC content, in kg VOC/kg solids (lb VOC/lb solids), as applied, of each strippable booth coating subject to the emission limits in §63.802 (a)(3) or (b)(3).

(c) The owner or operator of an affected source following the compliance method in §63.804 (a)(1) or (d)(1) shall maintain copies of the averaging calculation for each month following the compliance date, as well as the data on the quantity of coatings and thinners used that is necessary to support the calculation of E in Equation 1.

(d) The owner or operator of an affected source following the compliance procedures of §63.804 (f)(3)(ii) and (g)(3)(ii) shall maintain the records required by §63.806(b) as well as records of the following:

(1) Solvent and coating additions to the continuous coater reservoir;

(2) Viscosity measurements; and

(3) Data demonstrating that viscosity is an appropriate parameter for demonstrating compliance.

(e) The owner or operator of an affected source subject to the work practice standards in §63.803 of this subpart shall maintain onsite the work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to:

- (1) Records demonstrating that the operator training program required by §63.803(b) is in place;
- (2) Records collected in accordance with the inspection and maintenance plan required by §63.803(c);
- (3) Records associated with the cleaning solvent accounting system required by §63.803(d);
- (4) Records associated with the limitation on the use of conventional air spray guns showing total finishing material usage and the percentage of finishing materials applied with conventional air spray guns for each semiannual period as required by §63.803(h)(5).
- (5) Records associated with the formulation assessment plan required by §63.803(l); and
- (6) Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.
- (f) The owner or operator of an affected source following the compliance method of §63.804 (f)(4) or (g)(4) shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the value of  $E_{ac}$  required by Equations 2 or 4, records of the operating parameter values, and copies of the semiannual compliance reports required by §63.807(d).
- (g) The owner or operator of an affected source following the compliance method of §63.804 (f)(6) or (g)(6), shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the applicable value of  $G_{ac}$  calculated using Equation 3, records of the operating parameter values, and copies of the semiannual compliance reports required by §63.807(d).
- (h) The owner or operator of an affected source subject to the emission limits in §63.802 and following the compliance provisions of §63.804(f) (1), (2), (3), (5), (7) and (8) and §63.804(g) (1), (2), (3), (5), (7), and (8) shall maintain records of the compliance certifications submitted in accordance with §63.807(c) for each semiannual period following the compliance date.
- (i) The owner or operator of an affected source shall maintain records of all other information submitted with the compliance status report required by §63.9(h) and §63.807(b) and the semiannual reports required by §63.807(c).
- (j) The owner or operator of an affected source shall maintain all records in accordance with the requirements of §63.10(b)(1).

**§ 63.807 Reporting requirements.**

- (a) The owner or operator of an affected source subject to this subpart shall fulfill all reporting requirements of §63.7 through §63.10 of subpart A (General Provisions) according to the applicability criteria in §63.800(d) of this subpart.
- (b) The owner or operator of an affected source demonstrating compliance in accordance with §63.804(f) (1), (2), (3), (5), (7) and (8) shall submit the compliance status report required by §63.9(h) of subpart A (General Provisions) no later than 60 days after the compliance date. The report shall include the information required by §63.804(f) (1), (2), (3), (5), (7), and (8) of this subpart.
- (c) The owner or operator of an affected source demonstrating compliance in accordance with §63.804(g) (1), (2), (3), (5), (7), and (8) shall submit a report covering the previous 6 months of wood furniture manufacturing operations:
  - (1) The first report shall be submitted 30 calendar days after the end of the first 6-month period following the compliance date.
  - (2) Subsequent reports shall be submitted 30 calendar days after the end of each 6-month period following the first report.
  - (3) The semiannual reports shall include the information required by §63.804(g) (1), (2), (3), (5), (7), and (8), a statement of whether the affected source was in compliance or noncompliance, and, if the affected source was in noncompliance, the measures taken to bring the affected source into compliance.
  - (4) The frequency of the reports required by paragraph (c) of this section shall not be reduced from semiannually regardless of the history of the owner's or operator's compliance status.

(d) The owner or operator of an affected source demonstrating compliance in accordance with §63.804(g) (4) and (6) of this subpart shall submit the excess emissions and continuous monitoring system performance report and summary report required by §63.10(e) of subpart A. The report shall include the monitored operating parameter values required by §63.804(g) (4) and (6). If the source experiences excess emissions, the report shall be submitted quarterly for at least 1 year after the excess emissions occur and until a request to reduce reporting frequency is approved, as indicated in §63.10(e)(3)(C). If no excess emissions occur, the report shall be submitted semiannually.

(e) The owner or operator of an affected source required to provide a written notification under §63.803(1)(4) shall include in the notification one or more statements that explains the reasons for the usage increase. The notification shall be submitted no later than 30 calendar days after the end of the annual period in which the usage increase occurred.

**§ 63.808 Implementation and enforcement.**

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a 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 of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (5) of this section.

(1) Approval of alternatives to the requirements in §§63.800, 63.802, and 63.803(a)(1), (b), (c) introductory text, and (d) through (l).

(2) Approval of alternatives to the monitoring and compliance requirements in §§63.804(f)(4)(iv)(D) and (E), 63.804(g)(4)(iii)(C), 63.804(g)(4)(vi), and 63.804(g)(6)(vi).

(3) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart, as well as approval of any alternatives to the specific test methods under §§63.805(a), 63.805(d)(2)(v), and 63.805(e)(1).

(4) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(5) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

[68 FR 37354, June 23, 2003]

**Table 1 to Subpart JJ of Part 63—General Provisions Applicability to Subpart JJ**

Reference	Applies to subpart JJ	Comment
63.1(a)	Yes	
63.1(b)(1)	No	Subpart JJ specifies applicability.
63.1(b)(2)	Yes	
63.1(b)(3)	Yes	
63.1(c)(1)	No	Subpart JJ specifies applicability.
63.1(c)(2)	No	Area sources are not subject to subpart JJ.
63.1(c)(4)	Yes	

63.1(c)(5)	Yes	
63.1(e)	Yes	
63.2	Yes	Additional terms are defined in 63.801(a) of subpart JJ. When overlap between subparts A and JJ occurs, subpart JJ takes precedence.
63.3	Yes	Other units used in subpart JJ are defined in 63.801(b).
63.4	Yes	
63.5	Yes	
63.6(a)	Yes	
63.6(b)(1)	Yes	
63.6(b)(2)	Yes	
63.6(b)(3)	Yes	
63.6(b)(4)	No	May apply when standards are proposed under Section 112(f) of the CAA.
63.6(b)(5)	Yes	
63.6(b)(7)	Yes	
63.6(c)(1)	Yes	
63.6(c)(2)	No	
63.6(c)(5)	Yes	
63.6(e)(1)	Yes	
63.6(e)(2)	Yes	
63.6(e)(3)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.6(f)(1)	No	Affected sources complying through the procedures specified in 63.804 (a)(1), (a)(2), (b), (c)(1), (d)(1), (d)(2), (e)(1), and (e)(2) are subject to the emission standards at all times, including periods of startup, shutdown, and malfunction.
63.6(f)(2)	Yes	
63.6(f)(3)	Yes	
63.6(g)	Yes	
63.6(h)	No	
63.6 (i)(1)– (i)(3)	Yes	
63.6(i)(4)(i)	Yes	
63.6(i)(4)(ii)	No	
63.6 (i)(5)– (i)(14)	Yes	

63.6(i)(16)	Yes	
63.6(j)	Yes	
63.7	Yes	Applies only to affected sources using a control device to comply with the rule.
63.8	Yes	Applies only to affected sources using a control device to comply with the rule.
63.9(a)	Yes	
63.9(b)	Yes	Existing sources are required to submit initial notification report within 270 days of the effective date.
63.9(c)	Yes	
63.9(d)	Yes	
63.9(e)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.9(f)	No	
63.9(g)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.9(h)	Yes	63.9(h)(2)(ii) applies only to affected sources using a control device to comply with the rule.
63.9(i)	Yes	
63.9(j)	Yes	
63.10(a)	Yes	
63.10(b)(1)	Yes	
63.10(b)(2)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(b)(3)	Yes	
63.10(c)	Yes	
63.10(d)(1)	Yes	
63.10(d)(2)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(d)(3)	No	
63.10(d)(4)	Yes	
63.10(d)(5)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(e)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(f)	Yes	
63.11	No	
63.12–63.15	Yes	

**Table 2 to Subpart JJ of Part 63—List of Volatile Hazardous Air Pollutants**

Chemical name	CAS No.
Acetaldehyde	75070
Acetamide	60355
Acetonitrile	75058
Acetophenone	98862
2-Acetylaminofluorine	53963
Acrolein	107028
Acrylamide	79061
Acrylic acid	79107
Acrylonitrile	107131
Allyl chloride	107051
4-Aminobiphenyl	92671
Aniline	62533
o-Anisidine	90040
Benzene	71432
Benzidine	92875
Benzotrichloride	98077
Benzyl chloride	100447
Biphenyl	92524
Bis (2-ethylhexyl) phthalate (DEHP)	117817
Bis (chloromethyl) ether	542881
Bromoform	75252
1,3-Butadiene	106990
Carbon disulfide	75150
Carbon tetrachloride	56235
Carbonyl sulfide	463581
Catechol	120809
Chloroacetic acid	79118
2-Chloroacetophenone	532274
Chlorobenzene	108907

Chloroform	67663
Chloromethyl methyl ether	107302
Chloroprene	126998
Cresols (isomers and mixture)	1319773
o-Cresol	95487
m-Cresol	108394
p-Cresol	106445
Cumene	98828
2,4-D (2,4-Dichlorophenoxyacetic acid, including salts and esters)	94757
DDE (1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene)	72559
Diazomethane	334883
Dibenzofuran	132649
1,2-Dibromo-3-chloropropane	96128
Dibutylphthalate	84742
1,4-Dichlorobenzene	106467
3,3'-Dichlorobenzidine	91941
Dichloroethyl ether (Bis(2-chloroethyl)ether)	111444
1,3-Dichloropropene	542756
Diethanolamine	111422
N,N-Dimethylaniline	121697
Diethyl sulfate	64675
3,3'-Dimethoxybenzidine	119904
4-Dimethylaminoazobenzene	60117
3,3'-Dimethylbenzidine	119937
Dimethylcarbamoyl chloride	79447
N,N-Dimethylformamide	68122
1,1-Dimethylhydrazine	57147
Dimethyl phthalate	131113
Dimethyl sulfate	77781
4,6-Dinitro-o-cresol, and salts	534521
2,4-Dinitrophenol	51285

2,4-Dinitrotoluene	121142
1,4-Dioxane (1,4-Diethyleneoxide)	123911
1,2-Diphenylhydrazine	122667
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106898
1,2-Epoxybutane	106887
Ethyl acrylate	140885
Ethylbenzene	100414
Ethyl carbamate (Urethane)	51796
Ethyl chloride (Chloroethane)	75003
Ethylene dibromide (Dibromoethane)	106934
Ethylene dichloride (1,2-Dichloroethane)	107062
Ethylene glycol	107211
Ethylene oxide	75218
Ethylenethiourea	96457
Ethylidene dichloride (1,1-Dichloroethane)	75343
Formaldehyde	50000
Glycoethers <sup>a</sup>	
Hexachlorobenzene	118741
Hexachloro-1,3-butadiene	87683
Hexachloroethane	67721
Hexamethylene-1,6-diisocyanate	822060
Hexamethylphosphoramide	680319
Hexane	110543
Hydrazine	302012
Hydroquinone	123319
Isophorone	78591
Maleic anhydride	108316
Methanol	67561
Methyl bromide (Bromomethane)	74839
Methyl chloride (Chloromethane)	74873
Methyl chloroform (1,1,1-Trichloroethane)	71556

Methyl ethyl ketone (2-Butanone)	78933
Methylhydrazine	60344
Methyl iodide (Iodomethane)	74884
Methyl isobutyl ketone (Hexone)	108101
Methyl isocyanate	624839
Methyl methacrylate	80626
Methyl tert-butyl ether	1634044
4,4'-Methylenebis (2-chloroaniline)	101144
Methylene chloride (Dichloromethane)	75092
4,4'-Methylenediphenyl diisocyanate (MDI)	101688
4,4'-Methylenedianiline	101779
Naphthalene	91203
Nitrobenzene	98953
4-Nitrobiphenyl	92933
4-Nitrophenol	100027
2-Nitropropane	79469
N-Nitroso-N-methylurea	684935
N-Nitrosodimethylamine	62759
N-Nitrosomorpholine	59892
Phenol	108952
p-Phenylenediamine	106503
Phosgene	75445
Phthalic anhydride	85449
Polychlorinated biphenyls (Aroclors)	1336363
Polycyclic Organic Matter <sup>b</sup>	
1,3-Propane sultone	1120714
beta-Propiolactone	57578
Propionaldehyde	123386
Propoxur (Baygon)	114261
Propylene dichloride (1,2-Dichloropropane)	78875
Propylene oxide	75569

1,2-Propylenimine (2-Methyl aziridine)	75558
Quinone	106514
Styrene	100425
Styrene oxide	96093
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016
1,1,2,2-Tetrachloroethane	79345
Tetrachloroethylene (Perchloroethylene)	127184
Toluene	108883
2,4-Toluediamine	95807
Toluene-2,4-diisocyanate	584849
o-Toluidine	95534
1,2,4-Trichlorobenzene	120821
1,1,2-Trichloroethane	79005
Trichloroethylene	79016
2,4,5-Trichlorophenol	95954
2,4,6-Trichlorophenol	88062
Triethylamine	121448
Trifluralin	1582098
2,2,4-Trimethylpentane	540841
Vinyl acetate	108054
Vinyl bromide	593602
Vinyl chloride	75014
Vinylidene chloride (1,1-Dichloroethylene)	75354
Xylenes (isomers and mixture)	1330207
o-Xylene	95476
m-Xylene	108383
p-Xylene	106423

<sup>a</sup>Includes mono- and di-ethers of ethylene glycol, diethylene glycols and triethylene glycol; R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub> RR-OR where:

n = 1, 2, or 3,

R = alkyl or aryl groups

R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OH. Polymers are excluded from the glycol category.

<sup>b</sup>Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100°C.

[63 FR 71381, Dec. 28, 1998]

**Table 3 to Subpart JJ of Part 63—Summary of Emission Limits**

Emission point	Existing source	New source
Finishing Operations:		
(a) Achieve a weighted average VHAP content across all coatings (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied)	<sup>a</sup> 1.0	<sup>a</sup> 0.8
(b) Use compliant finishing materials (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied):		
—stains	<sup>a</sup> 1.0	<sup>a</sup> 1.0
—washcoats	<sup>a,b</sup> 1.0	<sup>a,b</sup> 0.8
—sealers	<sup>a</sup> 1.0	<sup>a</sup> 0.8
—topcoats	<sup>a</sup> 1.0	<sup>a</sup> 0.8
—basecoats	<sup>a,b</sup> 1.0	<sup>a,b</sup> 0.8
—enamels	<sup>a,b</sup> 1.0	<sup>a,b</sup> 0.8
—thinners (maximum percent VHAP allowable); or	10.0	10.0
(c) As an alternative, use control device; or	<sup>c</sup> 1.0	<sup>c</sup> 0.8
(d) Use any combination of (a), (b), and (c)	1.0	0.8
Cleaning Operations:		
Strippable spray booth material (maximum VOC content, kg VOC/kg solids [lb VOC/lb solids])	0.8	0.8
Contact Adhesives:		
(a) Use compliant contact adhesives (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied) based on following criteria:		
i. For aerosol adhesives, and for contact adhesives applied to nonporous substrates	<sup>d</sup> NA	<sup>d</sup> NA
ii. For foam adhesives used in products that meet flammability requirements	1.8	0.2
iii. For all other contact adhesives (including foam adhesives used in products that do not meet flammability requirements); or	1.0	0.2
(b) Use a control device	<sup>e</sup> 1.0	<sup>e</sup> 0.2

<sup>a</sup>The limits refer to the VHAP content of the coating, as applied.

<sup>b</sup>Washcoats, basecoats, and enamels must comply with the limits presented in this table if they are purchased premade, that is, if they are not formulated onsite by thinning other finishing materials. If they are formulated onsite,

they must be formulated using compliant finishing materials, i.e., those that meet the limits specified in this table, and thinners containing no more than 3.0 percent VHAP by weight.

<sup>c</sup>The control device must operate at an efficiency that is equivalent to no greater than 1.0 kilogram (or 0.8 kilogram) of VHAP being emitted from the affected emission source per kilogram of solids used.

<sup>d</sup>There is no limit on the VHAP content of these adhesives.

<sup>e</sup>The control device must operate at an efficiency that is equivalent to no greater than 1.0 kilogram (or 0.2 kilogram) of VHAP being emitted from the affected emission source per kilogram of solids used.

[60 FR 62936, Dec. 7, 1995, as amended at 62 FR 30260, June 3, 1997]

**Table 4 to Subpart JJ of Part 63—Pollutants Excluded From Use in Cleaning and Washoff Solvents**

Chemical name	CAS No.
4-Aminobiphenyl	92671
Styrene oxide	96093
Diethyl sulfate	64675
N-Nitrosomorpholine	59892
Dimethyl formamide	68122
Hexamethylphosphoramide	680319
Acetamide	60355
4,4'-Methylenedianiline	101779
o-Anisidine	90040
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016
Beryllium salts	
Benzidine	92875
N-Nitroso-N-methylurea	684935
Bis (chloromethyl) ether	542881
Dimethyl carbamoyl chloride	79447
Chromium compounds (hexavalent)	
1,2-Propylenimine (2-Methyl aziridine)	75558
Arsenic and inorganic arsenic compounds	99999904
Hydrazine	302012
1,1-Dimethyl hydrazine	57147
Beryllium compounds	7440417
1,2-Dibromo-3-chloropropane	96128
N-Nitrosodimethylamine	62759

Cadmium compounds	
Benzo (a) pyrene	50328
Polychlorinated biphenyls (Aroclors)	1336363
Heptachlor	76448
3,3'-Dimethyl benzidine	119937
Nickel subsulfide	12035722
Acrylamide	79061
Hexachlorobenzene	118741
Chlordane	57749
1,3-Propane sultone	1120714
1,3-Butadiene	106990
Nickel refinery dust	
2-Acetylaminoflourine	53963
3,3'-Dichlorobenzidine	53963
Lindane (hexachlorcyclohexane, gamma)	58899
2,4-Toluene diamine	95807
Dichloroethyl ether (Bis(2-chloroethyl) ether)	111444
1,2-Diphenylhydrazine	122667
Toxaphene (chlorinated camphene)	8001352
2,4-Dinitrotoluene	121142
3,3'-Dimethoxybenzidine	119904
Formaldehyde	50000
4,4'-Methylene bis (2-chloroaniline)	101144
Acrylonitrile	107131
Ethylene dibromide (1,2-Dibromoethane)	106934
DDE (1,1-p-chlorophenyl 1-2 dichloroethylene)	72559
Chlorobenzilate	510156
Dichlorvos	62737
Vinyl chloride	75014
Coke Oven Emissions	

Ethylene oxide	75218
Ethylene thiourea	96457
Vinyl bromide (bromoethene)	593602
Selenium sulfide (mono and di)	7488564
Chloroform	67663
Pentachlorophenol	87865
Ethyl carbamate (Urethane)	51796
Ethylene dichloride (1,2-Dichloroethane)	107062
Propylene dichloride (1,2-Dichloropropane)	78875
Carbon tetrachloride	56235
Benzene	71432
Methyl hydrazine	60344
Ethyl acrylate	140885
Propylene oxide	75569
Aniline	62533
1,4-Dichlorobenzene(p)	106467
2,4,6-Trichlorophenol	88062
Bis (2-ethylhexyl) phthalate (DEHP)	117817
o-Toluidine	95534
Propoxur	114261
1,4-Dioxane (1,4-Diethyleneoxide)	123911
Acetaldehyde	75070
Bromoform	75252
Captan	133062
Epichlorohydrin	106898
Methylene chloride (Dichloromethane)	75092
Dibenz (ah) anthracene	53703
Chrysene	218019
Dimethyl aminoazobenzene	60117
Benzo (a) anthracene	56553
Benzo (b) fluoranthene	205992

Antimony trioxide	1309644
2-Nitropropane	79469
1,3-Dichloropropene	542756
7, 12-Dimethylbenz(a) anthracene	57976
Benz(c) acridine	225514
Indeno(1,2,3-cd)pyrene	193395
1,2:7,8-Dibenzopyrene	189559

[63 FR 71382, Dec. 28, 1998]

**Table 5 to Subpart JJ of Part 63—List of VHAP of Potential Concern Identified by Industry**

CAS No.	Chemical name	EPA de minimis, tons/yr
68122	Dimethyl formamide	1.0
50000	Formaldehyde	0.2
75092	Methylene chloride	4.0
79469	2-Nitropropane	1.0
78591	Isophorone	0.7
1000425	Styrene monomer	1.0
108952	Phenol	0.1
111422	Dimethanolamine	5.0
109864	2-Methoxyethanol	10.0
111159	2-Ethoxyethyl acetate	10.0

[63 FR 71382, Dec. 28, 1998]

**Table 6 to Subpart JJ of Part 63—VHAP of Potential Concern**

CAS No.	Chemical name	EPA de minimis, tons/yr*
92671	4-Aminobiphenyl	1.0
96093	Styrene oxide	1.0
64675	Diethyl sulfate	1.0
59892	N-Nitrosomorpholine	1.0
68122	Dimethyl formamide	1.0
680319	Hexamethylphosphoramide	0.01
60355	Acetamide	1.0
101779	4,4'-Methylenedianiline	1.0
90040	o-Anisidine	1.0

1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00000006
92875	Benzidine	0.00003
684935	N-Nitroso-N-methylurea	0.00002
542881	Bis(chloromethyl) ether	0.00003
79447	Dimethyl carbamoyl chloride	0.002
75558	1,2-Propylenimine (2-Methyl aziridine)	0.0003
57147	1,1-Dimethyl hydrazine	0.0008
96128	1,2-Dibromo-3-chloropropane	0.001
62759	N-Nitrosodimethylamine	0.0001
50328	Benzo (a) pyrene	0.001
1336363	Polychlorinated biphenyls (Aroclors)	0.0009
76448	Heptachlor	0.002
119937	3,3'-Dimethyl benzidine	0.001
79061	Acrylamide	0.002
118741	Hexachlorobenzene	0.004
57749	Chlordane	0.005
1120714	1,3-Propane sultone	0.003
106990	1,3-Butadiene	0.007
53963	2-Acetylaminoflourine	0.0005
91941	3,3'-Dichlorobenzidine	0.02
58899	Lindane (hexachlorocyclohexane, gamma)	0.005
95807	2,4-Toluene diamine	0.002
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)	0.006
122667	1,2—Diphenylhydrazine	0.009
8001352	Toxaphene (chlorinated camphene)	0.006
121142	2,4-Dinitrotoluene	0.002
119904	3,3'-Dimethoxybenzidine	0.01
50000	Formaldehyde	0.2
101144	4,4'-Methylene bis(2-chloroaniline)	0.02
107131	Acrylonitrile	0.03
106934	Ethylene dibromide(1,2-Dibromoethane)	0.01

72559	DDE (1,1-p-chlorophenyl 1–2 dichloroethylene)	0.01
510156	Chlorobenzilate	0.04
62737	Dichlorvos	0.02
75014	Vinyl chloride	0.02
75218	Ethylene oxide	0.09
96457	Ethylene thiourea	0.06
593602	Vinyl bromide (bromoethene)	0.06
67663	Chloroform	0.09
87865	Pentachlorophenol	0.07
51796	Ethyl carbamate (Urethane)	0.08
107062	Ethylene dichloride (1,2-Dichloroethane)	0.08
78875	Propylene dichloride (1,2-Dichloropropane)	0.1
56235	Carbon tetrachloride	0.1
71432	Benzene	0.2
140885	Ethyl acrylate	0.1
75569	Propylene oxide	0.5
62533	Aniline	0.1
106467	1,4-Dichlorobenzene(p)	0.3
88062	2,4,6-Trichlorophenol	0.6
117817	Bis (2-ethylhexyl) phthalate (DEHP)	0.5
95534	o-Toluidine	0.4
114261	Propoxur	2.0
79016	Trichloroethylene	1.0
123911	1,4-Dioxane (1,4-Diethyleneoxide)	0.6
75070	Acetaldehyde	0.9
75252	Bromoform	2.0
133062	Captan	2.0
106898	Epichlorohydrin	2.0
75092	Methylene chloride (Dichloromethane)	4.0
127184	Tetrachloroethylene (Perchloroethylene)	4.0
53703	Dibenz (ah) anthracene	0.01

218019	Chrysene	0.01
60117	Dimethyl aminoazobenzene	1.0
56553	Benzo (a) anthracene	0.01
205992	Benzo (b) fluoranthene	0.01
79469	2-Nitropropane	1.0
542756	1,3-Dichloropropene	1.0
57976	7,12-Dimethylbenz (a) anthracene	0.01
225514	Benz(c)acridine	0.01
193395	Indeno(1,2,3-cd)pyrene	0.01
189559	1,2:7,8-Dibenzopyrene	0.01
79345	1,1,2,2-Tetrachloroethane	0.03
91225	Quinoline	0.0006
75354	Vinylidene chloride (1,1-Dichloroethylene)	0.04
87683	Hexachlorobutadiene	0.09
82688	Pentachloronitrobenzene (Quintobenzene)	0.03
78591	Isophorone	0.7
79005	1,1,2-Trichloroethane	0.1
74873	Methyl chloride (Chloromethane)	1.0
67721	Hexachloroethane	0.5
1582098	Trifluralin	0.9
1319773	Cresols/Cresylic acid (isomers and mixture)	1.0
108394	m-Cresol	1.0
75343	Ethylidene dichloride (1,1-Dichloroethane)	1.0
95487	o-Cresol	1.0
106445	p-Cresol	1.0
74884	Methyl iodide (Iodomethane)	1.0
100425	Styrene	1.0
107051	Allyl chloride	1.0
334883	Diazomethane	1.0
95954	2,4,5—Trichlorophenol	1.0
133904	Chloramben	1.0

106887	1,2—Epoxybutane	1.0
108054	Vinyl acetate	1.0
126998	Chloroprene	1.0
123319	Hydroquinone	1.0
92933	4-Nitrobiphenyl	1.0
56382	Parathion	0.1
13463393	Nickel Carbonyl	0.1
60344	Methyl hydrazine	0.006
151564	Ethylene imine	0.0003
77781	Dimethyl sulfate	0.1
107302	Chloromethyl methyl ether	0.1
57578	beta-Propiolactone	0.1
100447	Benzyl chloride	0.04
98077	Benzotrichloride	0.0006
107028	Acrolein	0.04
584849	2,4—Toluene diisocyanate	0.1
75741	Tetramethyl lead	0.01
78002	Tetraethyl lead	0.01
12108133	Methylcyclopentadienyl manganese	0.1
624839	Methyl isocyanate	0.1
77474	Hexachlorocyclopentadiene	0.1
62207765	Fluomine	0.1
10210681	Cobalt carbonyl	0.1
79118	Chloroacetic acid	0.1
534521	4,6-Dinitro-o-cresol, and salts	0.1
101688	Methylene diphenyl diisocyanate	0.1
108952	Phenol	0.1
62384	Mercury, (acetato-o) phenyl	0.01
98862	Acetophenone	1.0
108316	Maleic anhydride	1.0
532274	2-Chloroacetophenone	0.06

51285	2,4-Dinitrophenol	1.0
109864	2-Methoxy ethanol	10.0
98953	Nitrobenzene	1.0
74839	Methyl bromide (Bromomethane)	10.0
75150	Carbon disulfide	1.0
121697	N,N-Dimethylaniline	1.0
106514	Quinone	5.0
123386	Propionaldehyde	5.0
120809	Catechol	5.0
85449	Phthalic anhydride	5.0
463581	Carbonyl sulfide	5.0
132649	Dibenzofurans	5.0
100027	4-Nitrophenol	5.0
540841	2,2,4-Trimethylpentane	5.0
111422	Diethanolamine	5.0
822060	Hexamethylene-1,6-diisocyanate	5.0
	Glycol ethers <sup>a</sup>	5.0
	Polycyclic organic matter <sup>b</sup>	0.01

\*These values are based on the de minimis levels provided in the proposed rulemaking pursuant to section 112(g) of the Act using a 70-year lifetime exposure duration for all VHAP. Default assumptions and the de minimis values based on inhalation reference doses (RfC) are not changed by this adjustment.

<sup>a</sup>Except for ethylene glycol butyl ether, ethylene glycol ethyl ether (2-ethoxy ethanol), ethylene glycol hexyl ether, ethylene glycol methyl ether (2-methoxyethanol), ethylene glycol phenyl ether, ethylene glycol propyl ether, ethylene glycol mono-2-ethylhexyl ether, diethylene glycol butyl ether, diethylene glycol ethyl ether, diethylene glycol methyl ether, diethylene glycol hexyl ether, diethylene glycol phenyl ether, diethylene glycol propyl ether, triethylene glycol butyl ether, triethylene glycol ethyl ether, triethylene glycol methyl ether, triethylene glycol propyl ether, ethylene glycol butyl ether acetate, ethylene glycol ethyl ether acetate, and diethylene glycol ethyl ether acetate.

<sup>b</sup>Except for benzo(b)fluoranthene, benzo(a)anthracene, benzo(a)pyrene, 7,12-dimethylbenz(a)anthracene, benz(c)acridine, chrysene, dibenz(ah)anthracene, 1,2:7,8-dibenzopyrene, indeno(1,2,3-cd)pyrene, but including dioxins and furans.

[63 FR 71383, Dec. 28, 1998]

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

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A  
Source Address: 1 MasterBrand Cabinets Drive, Jasper, Indiana 47546 and  
14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546  
Mailing Address: P.O. Box 420, Jasper, IN 47547-0420  
Part 70 Permit No.: T 037-20767-00015

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A  
Source Address: 1 MasterBrand Cabinets Drive, Jasper, Indiana 47546 and  
14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546  
Mailing Address: P.O. Box 420, Jasper, IN 47547-0420  
Part 70 Permit No.: T 037-20767-00015

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

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

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

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

Page 2 of 2

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

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

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

**Part 70 Quarterly Report**

Source Name: MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A  
Source Address: One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and  
14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546  
Mailing Address: P.O. Box 420, Jasper, IN 47547-0420  
Part 70 Permit No.: T 037-20767-00015  
Facilities: Sixteen (16) surface coating booths, identified as SB6 and SB7, STB2 and STB3,  
TCB10 and TCB11, TB1, TCB9, TCB12, SB8, OFB-1 through OFB-4, TBB-1, and  
PSB-1  
Parameter: VOC Usage  
Limit: Less than two hundred and forty nine (249) tons per twelve (12) consecutive month  
period with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	VOC Usage	VOC Usage	VOC Usage
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: \_\_\_\_\_  
Title/Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report**

Source Name: MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A  
 Source Address: One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and  
 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546  
 Mailing Address: P.O. Box 420, Jasper, Indiana 47547-0420  
 Part 70 Permit No.: T 037-20767-00015  
 Facilities: Ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11,  
 TB1, TCB9, TCB12, and SB8  
 Parameter: PM<sub>10</sub> Emissions  
 Limit: Less than a total of 68.0 tons per twelve (12) consecutive month period with  
 compliance determined at the end of each month (as calculated by Condition  
 D.1.8)

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	PM <sub>10</sub> Emissions (tons)	PM <sub>10</sub> Emissions (tons)	PM <sub>10</sub> Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

**Part 70 Quarterly Report**

Source Name: MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A  
 Source Address: One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and  
 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546  
 Mailing Address: P.O. Box 420, Jasper, Indiana 47547-0420  
 Part 70 Permit No.: T 037-20767-00015  
 Facilities: Six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1  
 Parameter: PM<sub>10</sub> Emissions  
 Limit: Less than a total of 99.0 tons per twelve (12) consecutive month period with  
 compliance determined at the end of each month (as calculated by Condition  
 D.1.8)

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	PM <sub>10</sub> Emissions (tons)	PM <sub>10</sub> Emissions (tons)	PM <sub>10</sub> Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

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

Source Name: MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A  
 Source Address: One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and  
 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546  
 Mailing Address: P.O. Box 420, Jasper, IN 47547-0420  
 Part 70 Permit No.: T 037-20767-00015

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

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management  
Office of Air Quality**

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

**Source Background and Description**

Source Name:	MasterBrand Cabinets, Inc.
Source Location:	One MasterBrand Cabinets Drive, Jasper, IN 47546
County:	Dubois
SIC Code:	2434, 2517
Permit Renewal No.:	T 037-20767-00015
Permit Reviewer:	Timothy R. Pettifor

On October 12, 2007, the Office of Air Quality (OAQ) had a notice published in The Herald, Jasper, Indiana, stating that MasterBrand Cabinets, Inc. had applied for a Title V renewal to operate a wood furniture and kitchen cabinets manufacturing source. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On November 12, 2007, Michael Decker of MasterBrand Cabinets, Inc. submitted comments on the proposed Title V renewal. The comments are as follows: the permit language if changed, has deleted language as ~~strikeouts~~ and the new language **bolded**.

**Comment 1: Conditions D.1.4, D.1.8, D.1.11(b), and D.1.12**

MasterBrand Cabinets requests that Conditions D.1.4, D.1.8, D.1.11(b) be removed from the permit in their entirety. Removing these conditions would render the permit consistent with the permit conditions agreed to in two other recent air permit renewals, MBCI-Richmond T 177-25400-00015 and MBCI Decora T 037-20769-00052. The reference to Condition D.1.4 in Condition D.1.12 can also be removed.

**Response 1:** Upon further review, IDEM has determined that PM/PM<sub>10</sub> PSD Minor Limits for surface coating operations should only be applied to sources whose controlled source wide PM/PM<sub>10</sub> emissions are greater than 95% of the PSD threshold. Based on the calculations in Appendix A, the total controlled PM/PM<sub>10</sub> emissions are 77.3 tons per year. Since this number is less than 95% of the PSD threshold, IDEM agrees to delete the PM<sub>10</sub> PSD Minor Limit for the surface coating operation. The PSD Minor Limits for the woodworking operations remain unchanged. Conditions D.1.4, D.1.8, and D.1.11(b) have been deleted. Conditions D.1.12 and D.1.7 have also been revised to reflect this change. The remaining conditions in Section D.1 have been renumbered and the Table of Contents has been updated. No changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result, ensuring that these types of concerns are documented and part of the record regarding this permit decision.

~~D.1.4 PM2.5 PSD NSR Nonattainment Limitations and Minor PM10 Limits [326 IAC 2-1.1-5] [326 IAC 2-2]~~

~~Compliance with the following limits, in combination with the PM10 limits in D.2.4, renders the requirements of 326 IAC 2-1.1-5 and 326 IAC 2-2 not applicable to the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, and the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1. PM10 emissions are a surrogate for PM2.5 emissions.~~

- ~~(a) The coatings applied in the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, shall be limited such that PM10 emissions shall be less than a total of 68.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~
- ~~(b) The coatings applied in the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1, shall be limited such that PM10 emissions shall be less than a total of 99.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~
- ~~(c) The transfer efficiency of the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, and the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1 shall not be less than 40%.~~
- ~~(d) The control efficiency of the dry filters shall not be less than 90%.~~

~~D.1.5 D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]~~

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~~D.1.7 D.1.6 Particulate Matter (PM/PM10) Emissions Control [326 IAC 2-2] [326 IAC 2-1.1-5] [326 IAC 6.5-1-2]~~

~~In order to comply with Conditions D.1.3 and D.1.4(a) and (b), particulate from each surface coating facilities shall be controlled by a dry particulate filter and the Permittee shall operate the control device in accordance with the manufacturer's specifications.~~

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~~D.1.8 Particulate Matter (PM/PM10) Emissions Determination [326 IAC 2-2] [326 IAC 2-1.1-5]~~

~~Compliance with Conditions D.1.5(a) and D.1.5(b) shall be determined by calculating the PM10 emissions associated with each coating applied in the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, and in the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1, using the following equation:~~

$$PM10 = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$$

Where:

~~PM10= The total PM10 emissions in tons per month for a given coating.~~

~~CU= The total coating use of a given coating (gallons of a coating per month).~~

~~D= Density of a given coating (pounds of coating per gallon of coating).~~

~~W%S Weight percent solids of a given coating (pounds of solids per pound of coating).~~

~~TE= Transfer efficiency (%) of the spray applicators. This value shall equal 40%.~~

~~CE= Control efficiency (%) of the dry filters. This value shall equal 90%.~~

~~The total PM10 emissions in tons per month from the ten (10) spray booths is equal to the sum of the PM10 emissions associated with each coating applied by those spray booths. The total PM10 emissions in tons per month from the six (6) spray booths is equal to the sum of the PM10 emissions associated with each coating applied by those spray booths.~~

~~D.1.11~~ **D.1.8 Record Keeping Requirements**

(a) To document compliance with Condition D.1.2, 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 Condition D.1.2. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

- (1) The VOC content of each coating material and solvent used.
- (2) The amount of coating material and solvent less water used on a 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 Conditions D.1.4(a) and D.1.4(b) the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the PM/PM10 emission limits established in Conditions D.1.4(a) and D.1.4(b).~~

- ~~(1) The amount of each coating material used as (as applied). Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.~~
- ~~(2) The density and weight percent solids of each coating material used (as applied).~~
- ~~(3) Calculations as determined by Condition D.1.8.~~

~~(e)(b)~~ To document compliance with Conditions ~~D.1.8 and D.1.9~~ **D.1.7**, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.

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

~~D.1.12~~ D.1.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.2, ~~D.1.4(a), and D.1.4(b)~~ shall be submitted to the addresses 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).

**Comment 2: Conditions D.1.9 and D.1.10**

Conditions D.1.9 and D.1.10 could be combined by adding stack PS-1 to Condition D.1.9.

**Response 2:** Condition D.1.9 has been revised and Condition D.1.10 has been removed. The remaining conditions in Section D.1 have been renumbered.

~~D.1.9~~ D.1.7 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth Stacks (S1 through S3, ST1 and ST2, TC1 through TC4, OF-1 through OF-4, T1, ~~and TB-1,~~ **and PS-1**) 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 (S1 through S3, ST1 and ST2, TC1 through TC4, OF-1 through OF-4, T1, ~~and TB-1,~~ **and PS-1**) 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.

~~D.1.10~~ Monitoring

- ~~(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth Stack PS-1 while this booth is 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 Stack PS-1 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.~~

**Comment 3: Condition A.4 and Section D.3**

The oven constructed in 2007 and identified as OFO-1 mentioned in Condition A.4 (a) and Section D.3 was actually installed as an infrared unit not a natural gas-fired unit. In addition, there was an insignificant activity not listed in the permit. This plant has a diesel powered emergency generator with a 535 bhp engine, rated 350 kW, operated less than 500 hours per year. This source also has an 800 gallon diesel storage tank with an annual throughput of 200 gallons.

**Response 3:**

Because the oven is an infrared unit which does not generate particulate, 326 IAC 6.5-1-2 does not apply; and the oven is not a specifically regulated insignificant activity. However, the Diesel generator can generate particulate and 325 IAC 6.5-1-2 does apply. Therefore, Condition A.4 (a) and Section D.3 have been revised.

A.4 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) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, including the following:~~

~~One (1) natural gas-fired oven, constructed in 2007, identified as OFO-1, exhausting through Stack OF-7, heat input capacity: 1.0 million British thermal units per hour. [326 IAC 6.5-1-2]~~

**(a) Emergency Diesel generators not exceeding one thousand six hundred (1,600) horsepower including the following:**

**One (1) Diesel powered generator with a 535 bhp engine, rated at 350 kW, operated less than 500 hours per year [326 IAC 6.5-1-2].**

(b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

SECTION D.3

FACILITY OPERATION CONDITIONS

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

~~(a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, including the following:~~

~~One (1) natural gas-fired oven, constructed in 2007, identified as OFO-1, exhausting through Stack OF-7, heat input capacity: 1.0 million British thermal units per hour. [326 IAC 6.5-1-2]~~

**(a) Emergency Diesel generators not exceeding one thousand six hundred (1,600) horsepower including the following:**

**One (1) Diesel powered generator with a 535 bhp engine, rated at 350 kW, operated less than 500 hours per year [326 IAC 6.5-1-2]**

(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 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, particulate matter shall not exceed 0.03 grains per dry standard cubic foot from the ~~natural gas-fired oven,~~ **identified as OFO-4 Diesel powered emergency generator.**

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The diesel storage tank is an insignificant activity because it has a capacity less than one thousand (1000) gallons and an annual throughput of less than twelve thousand (12,000) gallons [326 IAC 2-7-1 (21) (G) (iii) (AA)]. 40 CFR 60 Subpart Ka does not apply to this storage tank because the tank is less than 40,000 gallons. 40 CFR 60 Subpart Kb applies to tanks greater than 75 m<sup>3</sup>. Using the conversion factor found in AP-42 Appendix A (3.7854 x 10<sup>-3</sup> m<sup>3</sup> per gallon), the tank can be shown to be less than 75 m<sup>3</sup>. Since there are no state or federal rules that apply to the storage tank, it has not been added to Condition A.4.

#### **Comment 4: Conditions A.3 (b) and (e); Sections D.1, and E.1**

Electrostatic booth STB3 mentioned in Condition A.3 (b), Section D.1 and E.1 exhausts to two stacks, ST1A and ST1B with a maximum flow rate of 4500 acfm and 3000 acfm, respectively. In addition, the flow rate of the touch-up booth identified as TCB 12 should be listed as 3,000 acfm.

#### **Response 4:**

Conditions A.3 (b) and (e), and Sections D.1, and E.1 have been revised as follows:

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

- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, **with STB2** exhausting to stacks ST2 ~~and ST4~~ at maximum flow rates of 4,500 dscfm, **and STB3 exhausting to stacks ST1A and ST1B at a maximum flow rate of 4,500 acfm and 3,000 acfm, respectively,** ~~each,~~ maximum capacity: of 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
  
  - (e) Two (2) topcoat touch-up booths, identified as TCB9 and TCB12, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC4 and TC3 at maximum flow rates of 9,500 ~~dscfm~~ **3,000 dscfm** and 6,000 ~~dscfm~~ **3,000 dscfm**, respectively, maximum capacity: 4800 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
-

SECTION D.1 FACILITY OPERATION CONDITIONS

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

Sixteen (16) surface coating booths located in Plant #2, including the following:

- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, **with STB2** exhausting to stacks ~~ST2 and ST4~~ at maximum flow rates of 4,500 dscfm, **and STB3 exhausting to stacks ST1A and ST1B at a maximum flow rate of 4,500 acfm and 3,000 acfm**, respectively, ~~each~~, maximum capacity: of 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (e) Two (2) topcoat touch-up booths, identified as TCB9 and TCB12, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC4 and TC3 at maximum flow rates of 9,500 ~~dscfm~~ and ~~6,000~~ **3,000 dscfm**, respectively, maximum capacity: 4800 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.

SECTION E.1 FACILITY OPERATION CONDITIONS

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

- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, **with STB2** exhausting to ~~Stacks ST1 and ST2~~, **and STB3 exhausting to stacks ST1A and ST1B** capacity: 4800 wood units per hour, total.

**Comment 5: Title Page, Conditions A.1, and A.2**

The mailing address listed in Condition A.1 should read P.O. Box 420, Jasper, IN 47547-0420 and the source phone number should be listed as 812-482-2527. In addition, Decora Plants #2 and #3A mentioned on the Title Page and Condition A.2 should be referred to as just Plant #2 and Plant #3A.

**Response 5:** The Title Page has been revised as follows:

Part 70 Operating Permit Renewal  
OFFICE OF AIR QUALITY

MasterBrand Cabinets, Inc. – ~~Decora~~ Plants #2 and #3A  
One MasterBrand Cabinets Drive  
Jasper, Indiana 47546

And

14<sup>th</sup> Street and MasterBrand Cabinets Drive  
Jasper, Indiana 47546

---

Conditions A.1 and A.2 have also been revised as follows:

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 wood furniture and kitchen cabinet manufacturing source.

Source Address: One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546

Mailing Address: ~~614 West 3rd Street, Ferdinand, IN 47532~~  
**P.O. Box 420, Jasper, IN 47547-0420**

General Source Phone Number: ~~812-634-0257~~ **812-482-2527**

SIC Code: 2434, 2517

County Location: Dubois

Source Location Status: Nonattainment for PM<sub>2.5</sub>

Source Status: Attainment for all other criteria pollutants  
Part 70 Operating Permit Program  
Minor Source under PSD Rules  
Major Source under Emission Offset Rules  
Major Source, Section 112 of the Clean Air Act  
Not 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This wood furniture and kitchen cabinets manufacturing source consists of two (2) plants:

- (a) ~~Decora~~ Plant #2 is located at One MasterBrand Cabinets Drive, Jasper, IN 47546; and
- (b) ~~Decora~~ Plant #3A is located at 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, IN 47546.

Since the two (2) plants are located on contiguous properties, have the same Standard Industrial Classification (SIC) codes and are owned by one (1) company, they will be considered one (1) source and issued one (1) Title V operating permit number: T 037-20767; and one (1) source identification number: 037-00015.

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The description in A.3 (j) (2) and Section D.2 has also been revised.

- (2) Woodworking operations located at ~~Decora~~ Plant #3A, identified as MC2, constructed in 1979, equipped with a baghouse for particulate control, identified as BH-3, with a maximum air flow rate of 12,000 acfm and a grain loading of 0.01 gr/dscf, exhausting to Stack C3, capacity: 10,710 pounds of wood per hour [326 IAC 6.5-1-2].
- 

The mailing address on the forms at the end of the permit has also been changed.

**Indiana Department of Environmental Management**  
Office of Air Quality

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

**Source Background and Description**

<b>Source Name:</b>	MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A
<b>Source Location:</b>	One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and 14 <sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546
<b>County:</b>	Dubois
<b>SIC Code:</b>	2434, 2517
<b>Permit Renewal No.:</b>	T 037-20767-00015
<b>Permit Reviewer:</b>	Michael A. Morrone/MES

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A relating to the operation of a wood furniture and kitchen cabinet manufacturing source.

**History**

On February 11, 2005, MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A, submitted an application to the OAQ requesting to renew its operating permit. MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A was issued a Part 70 Operating Permit Renewal, T 037-5929-00015, on November 15, 2000.

On February 12, 2007, MasterBrand Cabinets, Inc. – Decora Plants #2 and #3A, submitted an application to add six (6) spray booths and an insignificant natural gas-fired oven to their existing source. The addition of these booths required a restructuring of the existing limits in place at the source and were incorporated into the permit via Significant Source Modification 037-24318-00015 and Significant Permit Modification 037-24403-00015, issued on July 9, 2007 and July 13, 2007, respectively.

**Source Definition**

This wood furniture manufacturing company consists of two (2) plants:

- (a) Plant 2 is located at One MasterBrand Cabinets Drive, Jasper, Indiana 47546 and
- (b) Plant 3A is located at 14<sup>th</sup> Street and MasterBrand Cabinets Drive, Jasper, Indiana 47546.

These plants are located on contiguous properties, have the same SIC codes and are under common control. Therefore, they were considered one (1) source, as defined by 326 IAC 2-7-1(22) in the Part 70 Operating Permit T 037-5929-00015 issued on November 15, 2000.

**Permitted Emission Units and Pollution Control Equipment**

Sixteen (16) surface coating booths located in Plant #2, including the following:

- (a) Two (2) electrostatic disc sealer booths, identified as SB6 and SB7, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stacks S1 and S2 at maximum flow rates of 4,500 dscfm, each, maximum capacity: 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.

- (b) Two (2) electrostatic disc stain booths, identified as STB2 and STB3, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks ST2 and ST1 at maximum flow rates of 4,500 dscfm, each, maximum capacity: of 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (c) Two (2) electrostatic disc topcoat booths, identified as TCB10 and TCB11, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC1 and TC2 at maximum flow rates of 4,500 dscfm, each, maximum capacity: 4800 wood units per hour, total. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (d) One (1) toner booth, identified as TB1, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and electrostatic guns (air assisted airless) and with dry filters for particulate control, exhausting to stack T1 at a maximum flow rate of 11,000 dscfm, maximum capacity: 4800 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (e) Two (2) topcoat touch-up booths, identified as TCB9 and TCB12, constructed in March 1986, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks TC4 and TC3 at maximum flow rates of 9,500 and 6,000 dscfm, respectively, maximum capacity: 4800 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (f) One (1) sealer touch-up booth, identified as SB8, constructed in May 1993, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack S3 at a maximum flow rate of 9,500 dscfm, maximum capacity: 4800 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (g) Four (4) manual off-line spray booths, identified as OFB-1 through OFB-4, approved for construction in 2007\*, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks OF-1 through OF-4 at maximum flow rates of 10,000, 10,000, 10,000 and 15,000 dscfm, respectively, maximum capacity: 70 wood units per hour, each. Under NESHAP 40 CFR 63, Subpart JJ, these facilities are considered wood furniture manufacturing facilities.
- (h) One (1) manual toner-back spray booth, identified as TBB-1, approved for construction in 2007\*, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack TB-1 at a maximum flow rate of 10,000 dscfm, maximum capacity: 350 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.
- (i) One (1) manual pre-seal spray booth, identified as PSB-1, approved for construction in 2007\*, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stack PS-1 at a maximum flow rate of 8,000 dscfm, maximum capacity: 175 wood units per hour. Under NESHAP 40 CFR 63, Subpart JJ, this facility is considered a wood furniture manufacturing facility.

- (j) Woodworking Operations, consisting of the following:
- (1) Woodworking operations located at Plant #2, identified as MC14, constructed in 1974, equipped with two (2) baghouses for particulate control: one, identified as BH-1, with a maximum flow rate of 35,000 dscfm and a grain loading of 0.01 gr/dscf and one, identified as BH-2, with a maximum flow rate of 30,000 dscfm and a grain loading of 0.01 gr/dscf, exhausting to Stacks C1 and C2, respectively, maximum capacity: 5,950 pounds of wood per hour. [326 IAC 6.5-1-2]
  - (2) Woodworking operations located at Decora Plant #3A, identified as MC2, constructed in 1979, equipped with a baghouse for particulate control, identified as BH-3, with a maximum flow rate of 12,000 dscfm and a grain loading of 0.01 gr/dscf, exhausting to Stack C3, maximum capacity: 10,710 pounds of wood units per hour. [326 IAC 6.5-1-2]

\* Denotes that these facilities were approved for constructed via Significant Permit Modification 037-24403-00015, issued on July 13, 2007.

#### **Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit**

The source does not consist of any emission units or pollution control equipment that have been constructed and/or operated without a permit.

#### **Emission Units and Pollution Control Equipment Removed From the Source**

No emission units or pollution control equipment have been removed from the source.

#### **Insignificant Activities**

- (a) Natural gas-fired combustion sources with heat input capacities of less than ten million (10,000,000) British thermal units, including the following units:
  - One (1) natural gas-fired oven, identified as OFO-1, approved for construction in 2007, exhausting to stack OF-7, heat input capacity: 1.0 million British thermal units per hour, and with emissions. [326 IAC 6.5-1-2]
- (b) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (c) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (d) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (e) 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.
- (f) Any unit emitting greater than 1 pound per day but less than 12.5 pounds per day or 2.5 tons per year of any combinations of HAPs:
  - (1) One (1) 1500 gallon topcoat storage tank; and
  - (2) One (1) 1500 gallon sealer storage tank.

- (g) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (h) Research and development activities as defined in 326 IAC 2-7-1(21)(E).

### Existing Approvals

Since the issuance of the **Part 70 Operating Permit T 037-5929-00015** on November 15, 2000, the source has constructed or has been operating under the following approvals as well:

- (a) Minor Source Modification (MSM) 037-12868-00015, issued on December 15, 2000;
- (b) AA 037-12882-00015, issued on January 12, 2001;
- (c) AA 037-16669-00015, issued on October 30, 2002;
- (d) AA 037-20642-00015, issued on November 15, 2005;
- (e) Significant Source Modification (SSM) 037-24318-00015, issued on July 9, 2007, and
- (f) Significant Permit Modification (SPM) 037-24403-00015, issued on July 13, 2007.

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 revised in this **Part 70 Operating Permit Renewal**:

Conditions D.1.6 through D.1.8 and Condition D.1.10, from Significant Permit Modification 037-24403-00015, issued on July 13, 2007.

Reason Revised:

It is now IDEM policy to include the entire text of the applicable sections of the NESHAP in a separate section. These conditions have been incorporated into Section E.1 of the permit, where the NESHAP requirements reside.

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**:

Condition D.1.4 from Significant Permit Modification 037-24403-00015, issued on July 13, 2007.

#### D.1.4 PM PSD Minor Limitations [326 IAC 2-2]

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Compliance with the following limits for the sixteen (16) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, SB8, TCB9, TCB12, OFB-1 through OFB-4, TBB-1 and PSB-1, in combination with the PM limits in Condition D.2.3, renders the requirements of 326 IAC 2-2 not applicable to the entire source:

- (a) The coatings applied in the sixteen (16) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, SB8, TCB9, TCB12, OFB-1 through OFB-4, TBB-1 and PSB-1, shall be limited such that PM emissions shall be less than a total of 220.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

- (b) The transfer efficiency of the sixteen (16) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, SB8, TCB9, TCB12, OFB-1 through OFB-4, TBB-1 and PSB-1 shall not be less than 40%.
- (c) The control efficiency of the dry filters shall not be less than 90%.

Reason not incorporated:

The PM emissions limit contained in Condition D.1.4 is unnecessary because the potential to emit PM after controls and limits for the entire source is less than ninety-five (95%) percent of the major PSD threshold of two hundred and fifty (250) tons per year. Since there is no longer any PM limit in the permit for the surface coating facilities, the source no longer has to calculate PM emissions as was stipulated in Condition D.1.13.

### Enforcement Issue

There are no enforcement actions pending.

### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (dcfm)	Temperature (°F)
S1	Spray Booth SB6	28.75	2.0	4,500	Ambient
S2	Spray Booth SB7	28.75	2.0	4,500	Ambient
ST1	Spray Booth STB2	28.75	2.0	4,500	Ambient
ST2	Spray Booth STB3	28.75	2.0	4,500	Ambient
TC1	Spray Booth TCB10	28.75	2.0	4,500	Ambient
TC2	Spray Booth TCB11	28.75	2.0	4,500	Ambient
T1	Spray Booth TB1	28.75	2.5	11,000	Ambient
TC4	Spray Booth TCB9	28.75	2.5	9,500	Ambient
TC3	Spray Booth TCB12	28.75	2.5	6,000	Ambient
S3	Spray Booth SB8	28.75	2.5	9,500	Ambient
OFB-1	Manual Off-Line Spray Booth	28.75	2.5	10,000	ambient
OFB-2	Manual Off-Line Spray Booth	28.75	2.5	10,000	ambient
OFB-3	Manual Off-Line Spray Booth	28.75	2.5	10,000	ambient
OFB-4	Manual Off-Line Spray Booth	28.75	2.8	15,000	ambient
TBB-1	Manual Toner-Back Spray Booth	28.75	2.25	10,000	ambient
PSB-1	Manual Pre-Seal Spray Booth	28.75	1.75	8,000	ambient

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (dcfm)	Temperature (°F)
OFO-1	Natural Gas-Fired Oven	28.75	0.8	1,500	250

### Emission Calculations

See Appendix A of this document for detailed emission calculations.

### County Attainment Status

The source is located in Dubois County

Pollutant	Status
PM <sub>10</sub>	attainment
PM <sub>2.5</sub>	basic nonattainment
SO <sub>2</sub>	attainment
NO <sub>x</sub>	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Dubois County has been classified as nonattainment for PM<sub>2.5</sub> in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) 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<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Dubois County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO<sub>x</sub> 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) Dubois County has been classified as attainment or unclassifiable in Indiana for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	3,374
PM <sub>10</sub>	3,374
SO <sub>2</sub>	0.003
VOC	3,455
CO	0.368
NO <sub>x</sub>	0.438

HAPs	tons/year
Xylene	342
Ethyl Benzene	74.7
Toluene	46.3
Cumene	12.6
Dibutyl Phalate	0.847
Methanol	0.053
MIBK	0.043
Hexane	0.008
Benzene, Dichlorobenzene, Formaldehyde, Lead, Cadmium, Chromium, Manganese, Nickel	Less than or equal to 0.001
Total	477

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM<sub>10</sub> and VOC is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than one hundred (<100) tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. 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 2002 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	6.00
PM <sub>10</sub>	11.0
SO <sub>2</sub>	0.00
VOC	221
CO	0.00
NO <sub>x</sub>	0.00
HAP	not reported

**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/year)					
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>
SB6 and SB7	64.2	Less than 68.0	-	Less than 249	-	-
STB2 and STB3			-		-	
TCB10 and TCB11			-		-	
TB1			-		-	
TCB9 and TCB12			-		-	
SB8			-		-	
OFB-1 through OFB-4	64.2	Less than 99.0	-		-	-
TBB-1			-		-	
PSB-1			-		-	
MC14	Less than 24.4	Less than 24.4	-	-	-	-

Process/Emission Unit	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>
MC2	Less than 4.51	Less than 4.51	-	-	-	-
<b>Insignificant Activities</b>						
Natural gas-fired combustion	0.008	0.033	0.003	0.024	0.368	0.438
<b>Total</b>	<b>Less than 158</b>	<b>Greater than 100 and Less than 196</b>	<b>0.003</b>	<b>Less than 250</b>	<b>0.368</b>	<b>0.438</b>
<b>Major Source Threshold</b>	<b>250</b>	<b>100</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>

- (a) This existing stationary source is not major for PSD because the emissions of each attainment 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. The source has agreed to limit their PM and VOC emissions to less than two hundred and fifty (250) tons per year.
- (b) This existing stationary source is major for Emission Offset because the emissions of the nonattainment pollutant, PM<sub>2.5</sub>, using PM<sub>10</sub> as a surrogate, are greater than one hundred (>100) tons per year.
- (c) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

**Federal Rule Applicability**

The following federal rules are applicable to the source:

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to existing emission units that involve a pollutant-specific emission unit and meet 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.

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:

<b>Emission Unit / Pollutant</b>	<b>Control Device Used</b>	<b>Emission Limitation (Y/N)</b>	<b>Uncontrolled PTE (tons/year)</b>	<b>Controlled PTE (tons/year)</b>	<b>Major Source Threshold (tons/year)</b>	<b>CAM Applicable (Y/N)</b>	<b>Large Unit (Y/N)</b>
SB6 and SB7 (PM/PM <sub>10</sub> )	Dry Filters	Y	11.7	0.584	100	N	N
SB6 and SB7 (VOC)	None	Y	116	116	100	N	N
STB2 and STB3 (PM/PM <sub>10</sub> )	Dry Filters	Y	12.0	0.599	100	N	N
STB2 and STB3 (VOC)	None	Y	348	348	100	N	N
TCB10 and TCB11 (PM/PM <sub>10</sub> )	Dry Filters	Y	11.1	0.584	100	N	N
TCB10 and TCB11 (VOC)	None	Y	116	116	100	N	N
TB1 (PM/PM <sub>10</sub> )	Dry Filters	Y	0.804	0.040	100	N	N
TB1 (VOC)	None	Y	202	202	100	N	N
TCB9 and TCB12 (PM/PM <sub>10</sub> )	Dry Filters	Y	11.7	0.584	100	N	N
TCB9 and TCB12 (VOC)	None	Y	116	116	100	N	N
SB8 (PM/PM <sub>10</sub> )	Dry Filters	Y	5.84	0.292	100	N	N
SB8 (VOC)	None	Y	58.0	58.0	100	N	N
OFB-1 (PM/PM <sub>10</sub> )	Dry Filters	Y	3.91	0.196	100	N	N
OFB-1 (VOC)	None	Y	226	226	100	N	N
OFB-2 (PM/PM <sub>10</sub> )	Dry Filters	Y	32.7	1.64	100	N	N
OFB-2 (VOC)	None	Y	246	246	100	N	N
OFB-3 (PM/PM <sub>10</sub> )	Dry Filters	Y	71.9	3.60	100	N	N
OFB-3 (VOC)	None	Y	357	357	100	N	N
OFB-4 (PM/PM <sub>10</sub> )	Dry Filters	Y	53.1	2.66	100	N	N
OFB-4 (VOC)	None	Y	264	264	100	N	N
TBB-1 (PM/PM <sub>10</sub> )	Dry Filters	Y	14.0	0.700	100	N	N
TBB-1 (VOC)	None	Y	810	810	100	N	N
PSB-1 (PM/PM <sub>10</sub> )	Dry Filters	Y	120	6.00	100	Y	N

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)
PSB-1 (VOC)	None	Y	596	596	100	N	N
MC14 (PM/PM <sub>10</sub> )	Baghouse	Y	2,440	24.4	100	Y	N
MC2 (PM/PM <sub>10</sub> )	Baghouse	Y	451	4.51	100	Y	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the two (2) woodworking operations, identified as MC14 and MC2, and the one (1) manual pre-seal spray booth, identified as PSB-1, for PM and PM<sub>10</sub> upon issuance of the Title V Renewal. A CAM plan has been submitted and the Compliance Requirements section of this document contains a detailed description of the CAM requirements.

(b) The one (1) natural gas-fired oven, identified as OFO-1, is not a steam generating unit. Therefore, the requirements of the New Source Performance Standards, 40 CFR 60, Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, and Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, are not included in the permit.

(c) The two (2) electrostatic disc sealer booths, identified as SB6 and SB7, the two (2) electrostatic disc stain booths, identified as STB2 and STB3, the two (2) electrostatic disc topcoat booths, identified as TCB10 and TCB11, the one (1) toner booth, identified as TB-1, the two (2) topcoat touch-up booths, identified as TCB9 and TCB12, the one (1) sealer touch-up booth, identified as SB8, the four (4) manual off-line spray booths, identified as OFB-1 through OFB-4, the one (1) manual toner-back spray booth, identified as TBB-1, and the one (1) manual pre-seal booth, identified as PSB-1, are all considered wood furniture manufacturing facilities and are located at a major source for HAPs. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart JJ, National Emission Standards for Wood Furniture Manufacturing Operations, are included in the permit.

The two (2) electrostatic disc sealer booths, identified as SB6 and SB7, the two (2) electrostatic disc stain booths, identified as STB2 and STB3, the two (2) electrostatic disc topcoat booths, identified as TCB10 and TCB11, the one (1) toner booth, identified as TB-1, the two (2) topcoat touch-up booths, identified as TCB9 and TCB12, the one (1) sealer touch-up booth, identified as SB8, the four (4) manual off-line spray booths, identified as OFB-1 through OFB-4, the one (1) manual toner-back spray booth, identified as TBB-1, and the one (1) manual pre-seal booth, identified as PSB-1, are subject to the following portions of Subpart JJ. Non-applicable portions of the NESHAP will not be included in the permit.

- (1) 40 CFR 63.800(a), (d), and (e)
- (2) 40 CFR 63.801
- (3) 40 CFR 63.802(a)

- (4) 40 CFR 63.803
- (5) 40 CFR 63.804(a) through (c), (f), and (g)
- (6) 40 CFR 63.805(a) through (e)
- (7) 40 CFR 63.806
- (8) 40 CFR 63.807
- (9) 40 CFR 63.808
- (10) 40 CFR 63, Tables 1 through 6

### **State Rule Applicability – Entire Source**

#### **326 IAC 1-6-3 (Preventive Maintenance Plan)**

The source has submitted a Preventive Maintenance Plan (PMP) on December 18, 1996. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

#### **326 IAC 1-5-2 (Emergency Reduction Plans)**

The source has submitted an Emergency Reduction Plan (ERP) on July 13, 1999. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plans).

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

- (a) The unrestricted potential to emit VOC is greater than two hundred fifty (250) tons per year. However, the VOC emissions from all surface coating facilities have been limited to less than two hundred and forty-nine (249) tons per twelve consecutive month period, with compliance determined at the end of each month. This, in combination with VOC emissions from insignificant activities, will limit source-wide VOC emissions to less than two hundred fifty tons per year. Therefore, this source, which is not in one (1) of the twenty-eight (28) listed source categories, is a minor source pursuant to 326 IAC 2-2, PSD, with respect to VOC.
- (b) The unrestricted potential to emit PM is greater than two hundred fifty (250) tons per year. However, the source will limit PM emissions to less than two hundred fifty (250) tons per year as follows:

The PM emissions from the woodworking operation, identified as MC14, shall be limited to 5.57 pounds per hour, equivalent to 24.4 tons per year. In addition, the PM emissions from the woodworking operation, identified as MC2, shall be limited to 1.03 pounds per hour, equivalent to 4.51 tons per year.

Compliance with these limitations in combination with the controlled PM emissions from all surface coating facilities and unrestricted potential to emit PM from all insignificant activities shall limit source-wide PM emissions to less than two hundred fifty (250) tons per year. Therefore, this source, which is not in one (1) of the twenty-eight (28) source categories, is a minor source pursuant to 326 IAC 2-2, PSD, with respect to PM.

(c) The unrestricted potential to emit PM<sub>10</sub> is greater than two hundred fifty (250) tons per year. However, the source will limit PM<sub>10</sub> emissions to less than two hundred fifty (250) tons per year as follows:

(1) The coatings applied in the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, shall be limited such that PM<sub>10</sub> emissions shall be less than a total of 68.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with PM<sub>10</sub> emission limitation shall be determined by calculating the PM<sub>10</sub> emissions associated with each coating applied in the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, using the following equation:

$$PM_{10} = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$$

Where:

PM <sub>10</sub> =	The total PM <sub>10</sub> emissions in tons per month for a given coating.
CU=	The total coating use of a given coating (gallons of a coating per month).
D =	Density of a given coating (pounds of coating per gallon of coating).
W%S=	Weight percent solids of a given coating (pounds of solids per pound of coating).
TE=	Transfer efficiency (%) of the spray applicators. This value shall equal 40%.
CE=	Control efficiency (%) of the dry filters. This value shall equal 90%.

The total PM<sub>10</sub> emissions in tons per month from the ten (10) spray booths is equal to the sum of the PM<sub>10</sub> emissions associated with each coating applied by those spray booths.

(2) The coatings applied in the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1, shall be limited such that PM<sub>10</sub> emissions shall be less than a total of 99.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the PM<sub>10</sub> emission limitation shall be determined by calculating the PM<sub>10</sub> emissions associated with each coating applied in the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1 using the following equation:

$$PM_{10} = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$$

Where:

- PM<sub>10</sub>= The total PM<sub>10</sub> emissions in tons per month for a given coating.
- CU= The total coating use of a given coating (gallons of a coating per month).
- D = Density of a given coating (pounds of coating per gallon of coating).
- W%S= Weight percent solids of a given coating (pounds of solids per pound of coating).
- TE= Transfer efficiency (%) of the spray applicators. This value shall equal 40%.
- CE= Control efficiency (%) of the dry filters. This value shall equal 90%.

The total PM<sub>10</sub> emissions in tons per month from the six (6) spray booths is equal to the sum of the PM<sub>10</sub> emissions associated with each coating applied by those spray booths.

- (3) The PM<sub>10</sub> emissions from the woodworking operation, identified as MC14, shall be limited to 5.57 pounds per hour, equivalent to 24.4 tons per year. In addition, the PM<sub>10</sub> emissions from the woodworking operation, identified as MC2, shall be limited to 1.03 pounds per hour, equivalent to 4.51 tons per year.

Compliance with these limitations in combination with PM<sub>10</sub> emissions from insignificant activities shall render this source a minor source pursuant to 326 IAC 2-2, PSD, with respect to PM<sub>10</sub>.

- (d) The unrestricted potential to emit of CO and NO<sub>x</sub> are less than two hundred fifty (250) tons per year. Therefore, this source, which is not in one (1) of the twenty-eight (28) source categories, is a minor source pursuant to 326 IAC 2-2, PSD, with respect to CO and NO<sub>x</sub>.

#### 326 IAC 2-3 (Emission Offset)

- (a) Dubois County has been designated as nonattainment for PM<sub>2.5</sub> in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM<sub>2.5</sub> Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM<sub>2.5</sub> major NSR regulations, states should assume that a major stationary source's PM<sub>10</sub> emissions represent PM<sub>2.5</sub> emissions. IDEM will use the PM<sub>10</sub> nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM<sub>2.5</sub> NAAQS. A major source in a nonattainment area is a source that emits or has the potential to emit one hundred (100) tons per year of any nonattainment pollutant.
- (b) This source was an existing minor source pursuant to 326 IAC 2-1.1-5 (Air Quality Requirements) before the six (6) spray booths, identified as OFB-1 through OFB-4, PSB-

1, and TBB-1, were added to the source via Significant Source Modification 037-24318-00015, issued on July 9, 2007. The addition of these booths was considered a minor modification to an existing minor source due to the following limitations:

(1) The source was considered an existing minor source due to the following limitations:

(A) The coatings applied in the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, shall be limited such that PM<sub>10</sub> emissions shall be less than a total of 68.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with PM<sub>10</sub> emission limitation shall be determined by calculating the PM<sub>10</sub> emissions associated with each coating applied in the ten (10) spray booths, identified as SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, and SB8, using the following equation:

$$PM_{10} = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$$

Where:

PM<sub>10</sub> = The total PM<sub>10</sub> emissions in tons per month for a given coating.

CU= The total coating use of a given coating (gallons of a coating per month).

D= Density of a given coating (pounds of coating per gallon of coating).

W%S= Weight percent solids of a given coating (pounds of solids per pound of coating).

TE= Transfer efficiency (%) of the spray applicators. This value shall equal 40%.

CE= Control efficiency (%) of the dry filters. This value shall equal 90%.

The total PM<sub>10</sub> emissions in tons per month from the ten (10) spray booths is equal to the sum of the PM<sub>10</sub> emissions associated with each coating applied by those spray booths.

(B) The PM<sub>10</sub> emissions from the woodworking operation, identified as MC14, shall be limited to 5.57 pounds per hour, equivalent to 24.4 tons per year. In addition, the PM<sub>10</sub> emissions from the woodworking operation, identified as MC2, shall be limited to 1.03 pounds per hour, equivalent to 4.51 tons per year.

Compliance with these limitations in combination with PM<sub>10</sub> emissions from insignificant activities (which are being used as a surrogate for PM<sub>2.5</sub>) made this source an existing minor source with respect to 326 IAC 2-1.1-5, Nonattainment NSR for PM<sub>2.5</sub>.

- (2) The addition of the spray booths were considered minor modifications to an existing minor source due to the following limitations:

The potential to emit of PM<sub>10</sub> shall be limited to less than one hundred (100) tons per year for the proposed modification. Therefore, assuming that PM<sub>10</sub> emissions represent PM<sub>2.5</sub> emissions, the requirements of 326 IAC 2-1.1-5 do not apply for PM<sub>2.5</sub>.

The coatings applied in the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1, shall be limited such that PM<sub>10</sub> emissions shall be less than a total of 99.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the PM<sub>10</sub> emission limitation shall be determined by calculating the PM<sub>10</sub> emissions associated with each coating applied in the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1 and PSB-1 using the following equation:

$$PM_{10} = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$$

Where:

PM <sub>10</sub> =	The total PM <sub>10</sub> emissions in tons per month for a given coating.
CU=	The total coating use of a given coating (gallons of a coating per month).
D =	Density of a given coating (pounds of coating per gallon of coating).
W%S=	Weight percent solids of a given coating (pounds of solids per pound of coating).
TE=	Transfer efficiency (%) of the spray applicators. This value shall equal 40%.
CE=	Control efficiency (%) of the dry filters. This value shall equal 90%.

The total PM<sub>10</sub> emissions in tons per month from the six (6) spray booths is equal to the sum of the PM<sub>10</sub> emissions associated with each coating applied by those spray booths.

This modification to an existing minor stationary source (Significant Source Modification 037-24318-00015, issued on July 9, 2007) was considered minor because the PM<sub>2.5</sub> emission increase was less than the NSR nonattainment major source threshold. Therefore, pursuant to 326 IAC 2-1.1-5, the NSR nonattainment requirements did not apply to the six (6) spray booths, identified as OFB-1 through OFB-4, TBB-1, and PSB-1.

As a result, this source is considered a major source with respect to PM<sub>2.5</sub> pursuant to NSR nonattainment.

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

Although the operation of this source will emit greater than ten (10) tons per year of a single HAP and twenty-five (25) tons per year of a combination of HAPs, the requirements of 326 IAC 2-4.1 do not apply to the six (6) spray booths, identified as OBF-1 through OBF-4, TBB-1 and PSB-1, because although these facilities emit HAPs and were constructed after the July 27, 1997 applicability date of this rule, these six (6) spray booths are subject to the requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63, Subpart JJ. Therefore, the requirements of 326 IAC 2-4.1-1 are satisfied by compliance with NESHAP Subpart JJ.

### 326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7, Part 70. In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted by July 1. 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.

### 326 IAC 6-4 (Fugitive Dust Emissions)

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

### 326 IAC 20-14 (National Emission Standards for Hazardous Air Pollutants)

This source is subject to a National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart JJ, National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Wood Furniture Manufacturing Operations. Therefore, the requirements of 326 IAC 20-14 are applicable because the rule incorporates by reference the provisions of 40 CFR 63.

## **State Rule Applicability – Individual Facilities**

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

Since this source is located in Dubois County and the particulate emission limitations in 326 IAC 6.5-1-2 are more stringent for the fifteen (15) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, TCB9, TCB12, SB8, OFB-1 through OFB-4, TBB-1, and PSB-1, and the two (2) woodworking operations, identified as MC14 and MC2, the requirements of 326 IAC 6-3-2(d) are not applicable to these facilities.

### 326 IAC 6.5-1-2 (Particulate Matter Emissions Except Lake County)

This source is located in Dubois County and is not specifically listed in 326 IAC 6.5-4. Since the potential to emit PM is greater than one hundred (100) tons per year, the requirements of 326 IAC 6.5-1-2 are applicable.

- (a) Pursuant to 326 IAC 6.5-1-2, the PM emissions from the nine (9) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, TCB9, TCB12, and SB8, shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (b) Pursuant to 326 IAC 6.5-1-2, the PM emissions from the six (6) surface coating booths, identified as OFB-1 through OFB-4, TBB-1, and PSB-1, shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (c) Pursuant to 326 IAC 6.5-1-2, particulate matter shall not exceed 0.03 grains per dry standard cubic foot from the two (2) woodworking operations, identified as MC14 and MC2.

### 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating)

- (a) The eight (8) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, and TCB9 and TCB12, were in existence on July 1, 1990, but are at a source which is located in Dubois County. Therefore, pursuant to 326 IAC 8-2-1(a)(3), the requirements of 326 IAC 8-2-12 are not applicable.
- (b) The seven (7) surface coating booths, identified as SB8, OFB-1 through OFB-4, TBB-1, and PSB-1, were constructed after July 1, 1990, coat wood cabinets, and have potential and thus actual VOC emissions of greater than fifteen (15.0) pounds per day. Therefore, pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-12 are applicable.

Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), the surface coating applied to wood furnishings at the seven (7) surface coating booths, identified as SB8, OFB-1 through OFB-4, TBB-1, and PSB-1 shall utilize one of the following application methods:

- Airless Spray Application
- Air Assisted Airless Spray Application
- Electrostatic Spray Application
- Electrostatic Bell or Disc Application
- Heated Airless Spray Application
- Roller Coating
- Brush or Wipe Application
- Dip-and-Drain Application

High Volume Low Pressure (HVLP) Spray Application is an accepted alternative method of application for Air Assisted Airless Spray Application. HVLP spray is the technology used to apply coating to substrate by means of coating application equipment which operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

The seven (7) spray booths are equipped with high volume low pressure (HVLP) spray applicators, therefore, all seven (7) spray booth can comply with this rule.

### 326 IAC 8-11-1 (Wood Furniture Coatings)

This source does perform wood furniture manufacturing operations, but is located in Dubois County. Therefore, pursuant to 326 IAC 8-11-1, the requirements of 326 IAC 8-11 are not applicable.

### State Rule Applicability – Insignificant Activities

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

Since this source is located in Dubois County and the particulate emission limitations in 326 IAC 6.5-1-2 are more stringent for the one (1) natural gas-fired oven, identified as OFO-1, the requirements of 326 IAC 6-3-2 are not applicable.

#### 326 IAC 6.5-1-2 (Particulate Matter Emissions Except Lake County)

This source is located in Dubois County, and is not specifically listed in 326 IAC 6.5-4. Since the potential PM emissions from this source are greater than one hundred (100) tons per year, the requirements of 326 IAC 6.5-1-2 are applicable.

Pursuant to 326 IAC 6.5-1-2, particulate matter shall not exceed 0.03 grains per dry standard cubic foot from the one (1) natural gas-fired oven, identified as OFO-1.

### Testing Requirements

No testing is proposed in this permit and there has not been any previous stack testing conducted at this source.

### 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:

- (a) The sixteen (16) surface coating booths, identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, TCB9, TCB12, SB8, OFB-1 through OFB-4, TBB-1, and PSB-1, have the following Compliance Determination Requirements:
  - (1) Compliance with the VOC usage limitations 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.

- (2) Compliance with the PM and PM<sub>10</sub> limitations shall be determined using the following equations:

(A)  $PM = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$

Where:

- PM= The total PM emissions in tons per month for a given coating.
- CU= The total coating use of a given coating (gallons of a coating per month).
- D= Density of a given coating (pounds of coating per gallon of coating).
- W%S= Weight percent solids of a given coating (pounds of solids per pound of coating).
- TE= Transfer efficiency (%) of the spray applicators. This value shall equal 40%.
- CE= Control efficiency (%) of the dry filters. This value shall equal 90%.

(B)  $PM_{10} = CU \times D \times W\%S \times (1 - TE/100) \times (1 - CE/100) \times 1/2000$

Where:

- PM<sub>10</sub>= The total PM<sub>10</sub> emissions in tons per month for a given coating.
- CU= The total coating use of a given coating (gallons of a coating per month).
- D= Density of a given coating (pounds of coating per gallon of coating).
- W%S= Weight percent solids of a given coating (pounds of solids per pound of coating).
- TE= Transfer efficiency (%) of the spray applicators. This value shall equal 40%.
- CE= Control efficiency (%) of the dry filters. This value shall equal 90%.

- (b) The two (2) woodworking operations, identified as MC14 and MC2, have the following Compliance Determination Requirements:

- (1) The baghouses for particulate control shall be in operation and control emissions from the two (2) woodworking operations, identified as MC14 and MC2, at all times that the woodworking operations are in operation.
- (2) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

The Compliance Monitoring Requirements applicable to this source are as follows:

Control	Parameter	Frequency	Range	Excursions and Exceedances
Dry Particulate Filters	Overspray	Weekly	No Overspray – Presence of Overspray	Response Steps
		Monthly	No Overspray- Presence of Overspray	
			No Change of Overspray- Noticeable Change in Overspray	

These monitoring conditions are necessary because the dry particulate filters for the fourteen (14) surface coating booths, identified as identified as SB6 and SB7, STB2 and STB3, TCB10 and TCB11, TB1, TCB9, TCB12, and SB8, OFB-1 through OFB-4, and TBB-1 must operate properly to ensure compliance with 326 IAC 6.5-1-2 (Particulate Matter Emissions Except Lake County).

The Compliance Assurance Monitoring Requirements applicable to this source are as follows:

Control	Parameter	Frequency	Range	Excursions and Exceedances
Dry Particulate Filters	Overspray	Weekly	No Overspray – Presence of Overspray	Response Steps
		Monthly	No Overspray- Presence of Overspray	
			No Change of Overspray- Noticeable Change in Overspray	
Baghouses BH-1 through BH-3	Visible Emissions	Weekly	Normal- Abnormal	Response Steps
	Baghouse Inspections	Quarterly	Defective - Nondefective	

These monitoring conditions are necessary because the dry particulate filters for the one (1) surface coating booth, identified as PSB-1, and the baghouses for the two (2) woodworking operations, identified as MC14 and MC2, must operate properly to ensure compliance with 326 IAC 6.5-1-2 (Particulate Matter Emissions Except Lake County) and 40 CFR 64.

### **Recommendation**

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

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

An application for the purposes of this review was received on February 11, 2005. Additional information was received on March 28 and April 2, 2007.

### **Conclusion**

The operation of this wood furniture and kitchen cabinet manufacturing source shall be subject to the conditions of the attached **Part 70 Operating Permit Renewal No. T 037-20767-00015**.

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

**Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546**

**Part 70: T 037-20767-00015  
Reviewer: Michael A. Morrone/MES  
Date: September 26, 2007**

Emission Unit/Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
<b>SB6 and SB7</b>																
Electrostatic Self-Seal 831-52L6V-411	7.74	71.3%	0.040%	71.3%	0.040%	23.1%	0.001	4800	5.52	5.52	26.5	635	116	28.0	23.9	40%
<b>STB2 and STB3</b>																
Washcoat 420-L6V-673	7.24	87.9%	0.00%	87.9%	0.00%	7.43%	0.003	4800	6.36	6.36	79.4	1906	348	28.7	85.7	40%
<b>TCB10 and TCB11</b>																
Electrostatic Self-Seal 831-52L6V-411	7.74	71.3%	0.040%	71.3%	0.040%	23.1%	0.001	4800	5.52	5.52	26.5	635	116	28.0	23.9	40%
<b>TB1</b>																
Spice Toner 431-D6V-5834	6.96	98.4%	0.00%	98.4%	0.00%	0.760%	0.001	4800	6.85	6.85	46.0	1105	202	1.930	901	40%
<b>SB8</b>																
Electrostatic Self-Seal 831-52L6V-411	7.74	71.3%	0.040%	71.3%	0.040%	23.1%	0.001	4800	5.52	5.52	13.2	318	58.0	14.01	23.9	40%
<b>TCB9 and TCB12</b>																
Electrostatic Self-Seal 831-52L6V-411	7.74	71.3%	0.040%	71.3%	0.040%	23.1%	0.001	4800	5.52	5.52	26.5	635	116	28.0	23.9	40%
<b>OFB-1 through OFB-4</b>																
Toner (431-D6V-5874-B)	7.01	96.7%	0.00%	96.7%	0.000%	1.57%	0.109	70.0	6.78	6.78	51.7	1241	226	4.70	432	40%
Stain (542-D6V-4810-C)	7.25	79.1%	0.527%	78.6%	0.459%	10.71%	0.141	70.0	5.72	5.70	56.2	1350	246	39.3	53.2	40%
Sealer/Topcoat (831-52L6V-411)	7.74	71.3%	0.046%	71.3%	0.043%	23.1%	0.211	70.0	5.52	5.51	81.5	1955	357	86.2	23.9	40%
Toner/Stain/Sealer/Topcoat (831-52L6V-411)	7.74	71.3%	0.046%	71.3%	0.043%	23.1%	0.156	70.0	5.52	5.51	60.2	1445	264	63.8	23.9	40%
<b>TBB-1</b>																
Toner - Back (431-D6V-5874-B)	7.01	96.7%	0.000%	96.7%	0.000%	1.57%	0.078	350	6.78	6.78	185	4440	810	16.8	432	40%
<b>PSB-1</b>																
Pre-Seal (831-52L6V-411)	7.74	71.3%	0.046%	71.3%	0.043%	23.1%	0.141	175	5.52	5.51	136	3266	596	144	23.9	40%

PM Control Efficiency: 90.0%

**Add worst case coating to all solvents**

<b>Uncontrolled</b>	<b>789</b>	<b>18931</b>	<b>3455</b>	<b>484</b>
<b>Controlled</b>	<b>789</b>	<b>18931</b>	<b>3455</b>	<b>48.4</b>

**METHODOLOGY**

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

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

**Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546  
Part 70: T 037-20767-00015  
Permit Reviewer: Michael A. Morrone/MES  
Date: September 26, 2007**

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Ethyl Benzene	Weight % Dibutyl Phalate	Weight % Methanol	Weight % MIBK	Weight % Toluene	Weight % Xylene	Weight % Cumene	Ethyl Benzene Emissions (ton/yr)	Dibutyl Phalate Emissions (ton/yr)	Methanol Emissions (ton/yr)	MIBK Emissions (ton/yr)	Toluene Emissions (ton/yr)	Xylene Emissions (ton/yr)	Cumene Emissions (ton/yr)	Total Emissions (ton/yr)
<b>SB6 and SB7</b>																		
Electrostatic Self-Seal 831-52L6V-411	7.74	0.001	4800	3.13%	0.00%	0.00%	0.00%	0.08%	14.38%	0.514%	5.10	0.00	0.00	0.00	0.135	23.4	0.836	28.6
<b>STB2 and STB3</b>																		
Stone Wash Washcoat 420-L6V-673	7.24	0.003	4800	0.08%	0.00%	0.00%	0.00%	8.47%	0.23%	0.00%	0.365	0.00	0.00	0.00	38.7	1.03	0.00	40.1
<b>TCB10 and TCB11</b>																		
Electrostatic Self-Seal 831-52L6V-411	7.74	0.00100	4800.00	3.13%	0.00%	0.00%	0.00%	0.08%	14.38%	0.514%	5.10	0.00	0.00	0.00	0.135	23.4	0.836	28.6
<b>TB1</b>																		
Spice Toner 431-D6V-5834	6.96	0.00100	4800.00	0.00%	0.00%	0.00%	0.00%	0.120%	0.002%	0.00%	0.001	0.00	0.00	0.00	0.176	0.003	0.00	0.180
<b>SB8</b>																		
Electrostatic Self-Seal 831-52L6V-411	7.7	0.00100	4800.000	3.13%	0.00%	0.00%	0.00%	0.08%	14.38%	0.514%	5.10	0.00	0.00	0.00	0.135	23.4	0.836	28.6
<b>TCB9 and TCB12</b>																		
Electrostatic Self-Seal 831-52L6V-411	7.7	0.00100	4800.000	3.13%	0.00%	0.00%	0.00%	0.08%	14.38%	0.51%	5.10	0.00	0.00	0.00	0.135	23.4	0.836	28.6
<b>OFB-1 through OFB-4</b>																		
Toner (431-D6V-5874-B)	7.0	0.10900	70.000	0.00%	0.08%	0.00%	0.00%	0.095%	0.005%	0.00%	0.009	0.185	0.00	0.009	0.223	0.012	0.00	0.438
Stain (542-D6V-4810-C)	7.3	0.14100	70.000	0.15%	0.00%	0.02%	0.00%	1.54%	0.69%	0.142%	0.464	0.00	0.053	0.00	4.84	2.17	0.445	7.52
Sealer/Topcoat (831-52L6V-411)	7.7	0.21100	70.000	3.13%	0.00%	0.00%	0.00%	0.083%	14.38%	0.514%	15.7	0.00	0.00	0.00	0.416	72.0	2.57	88.1
Toner/Stain/Sealer/Topcoat (831-52L6V-411)	7.7	0.15600	70.000	3.13%	0.00%	0.00%	0.00%	0.083%	14.38%	0.514%	11.6	0.00	0.00	0.00	0.307	53.2	1.90	65.1
<b>TBB-1</b>																		
Toner - Back (431-D6V-5874-B)	7.0	0.07800	350.000	0.00%	0.079%	0.00%	0.00%	0.095%	0.005%	0.00%	0.034	0.662	0.00	0.034	0.796	0.042	0.00	1.57
<b>PSB-1</b>																		
Pre - Seal (831-52L6V-411)	7.7	0.14100	175.000	3.13%	0.00%	0.00%	0.00%	0.08%	14.38%	0.51%	26.2	0.00	0.00	0.00	0.307	120	4.30	147
<b>Totals</b>											<b>74.7</b>	<b>0.847</b>	<b>0.053</b>	<b>0.043</b>	<b>46.3</b>	<b>342</b>	<b>12.6</b>	<b>464</b>

**METHODOLOGY**

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

**Appendix A: Emission Calculations  
Grain Loading Calculations**

**Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A**  
**Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and**  
**14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546**  
**Part 70: T 037-20767-00015**  
**Reviewer: Michael A. Morrone/MES**  
**Date: September 26, 2007**

**Wooworking Operations MC14 and MC2**

Baghouse ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM Emission Rate before Controls (lb/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lb/hr)	PM Emission Rate after Controls (tons/yr)
BH-1	99.0%	0.0100	35000	300	1314	3.00	13.1
BH-2	99.0%	0.0100	30000	257	1126	2.57	11.3
BH-3	99.0%	0.0100	12000	103	451	1.03	4.51

**Methodology**

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls)(lbs/hr) / (1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

**Limited Potential to Emit from Woodworking and Surface Coating Operations**

Unit ID (s)	Grain Loading Per Actual Cubic foot of Outlet air (grains/acf)	Gas or Air Flow Rate (acfm)	PM Emissions (grains/hr)	PM Emissions (lbs/hr)	PM Emissions (tons/yr)
MC14	0.010	65000	39000	5.57	24.4
MC2	0.010	12000	7200	1.03	4.51
SB6, SB7, STB2, STB3, TCB10, TCB11, TB1, TCB9, TCB12, SB8	0.030	57000	102600	14.66	64.2
OFB-1 through OFB-4, TBB-1, PSB-1	0.030	57000	102600	14.66	64.2
		<b>Total</b>	<b>251400</b>	<b>35.9</b>	<b>157</b>

**Methodology**

PM Emissions (grains/hr) = Grain Loading (gr/acf) \* Air Flow (acf/min) \* 60 (min/hr)

PM Emissions (lbs/hr) = PM Emissions (grains/hr)\* (1 lb/7000 grains)

PM Emissions (tons/yr) = PM Emissions (lbs/hr) \* 8760 hrs/yr \*2000 lbs/ton

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

**Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546  
Part 70: T 037-20767-00015  
Reviewer: Michael A. Morrone/MES  
Date: September 26, 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
One (1) natural gas-fired oven, identified as OFO-1	1.00	8.76	0.008	0.033	0.003	0.438	0.024	0.368
<b>Total</b>	<b>1.00</b>	<b>8.76</b>	<b>0.008</b>	<b>0.033</b>	<b>0.003</b>	<b>0.438</b>	<b>0.024</b>	<b>0.368</b>

**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 5 for HAPs emissions calculations.

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

**Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546  
Part 70: T 037-20767-00015  
Reviewer: Michael A. Morrone/MES  
Date: September 26, 2007**

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 0.0021	Dichlorobenzene 0.0012	Formaldehyde 0.075	Hexane 1.80	Toluene 0.0034
Potential Emission in tons/yr	0.00001	0.00001	0.0003	0.008	0.00001

HAPs - Metals

Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.001	Chromium 0.001	Manganese 0.0004	Nickel 0.002	Total HAPs
Potential Emission in tons/yr	0.000002	0.000005	0.00001	0.000002	0.00001	<b>0.008</b>

Methodology is the same as page 1.

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  
Summary**

**Company Name:** MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
**Address City IN Zip:** One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
 14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546  
**Part 70:** T 037-20767-00015  
**Reviewer:** Michael A. Morrone/MES  
**Date:** September 26, 2007

**Uncontrolled Potential Emissions**

<i>Significant Emission Units</i>	PM	PM-10	SO2	NOx	VOC	CO	Ethyl Benzene	Dibutyl Phalate	Methanol	MIBK	Toluene	Xylene	Cumene	Benzene	Dichloro-benzene	Formal-dehyde	Hexane	Lead	Cadmium	Chromium	Manganese	Nickel	Total HAPs	
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)							
SB 6 and SB7	28.0	28.0	0.00	0.00	116	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5
STB2 and STB3	28.7	28.7	0.00	0.00	348	0.00	0.365	0.00	0.00	0.00	38.7	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.1
TCB10 and TCB11	28.0	28.0	0.00	0.00	116	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5
TB1	1.930	1.930	0.00	0.00	202	0.00	0.00	0.00	0.00	0.00	0.176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.180
SB8	14.01	14.01	0.00	0.00	58.0	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5
TCB8 and TCB12	28.0	28.0	0.00	0.00	116	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5
OFB-1 through OFB-	194	194	0.00	0.00	1093	0.00	27.8	0.185	0.053	0.009	5.78	127	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	166
TBB-1	16.8	16.8	0.00	0.00	810	0.00	0.034	0.662	0.00	0.034	0.796	0.042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57
PSB-1	144	144	0.00	0.00	596	0.00	26.2	0.00	0.00	0.00	0.307	120	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151
MC14	2440	2440	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	0.00	0.00	0.00	0.00	0.00	0.00
MC2	451	451	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	0.00	0.00	0.00	0.00	0.00	0.00
<b>Subtotal Significant Emission Unit</b>	<b>3374</b>	<b>3374</b>	<b>0.00</b>	<b>0.00</b>	<b>3455</b>	<b>0.00</b>	<b>74.7</b>	<b>0.847</b>	<b>0.053</b>	<b>0.043</b>	<b>46.3</b>	<b>342</b>	<b>12.6</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>477</b>
<i>Insignificant Activities</i>																								
Natural gas-fired combustion	0.008	0.033	0.003	0.438	0.024	0.368	0.00	0.00	0.00	0.00	0.00001	0.00	0.00	0.00001	0.00001	0.0003	0.008	0.000002	0.000005	0.00001	0.000002	0.00001	0.00001	0.008
<b>Subtotal Insignificant Activities</b>	<b>0.008</b>	<b>0.033</b>	<b>0.003</b>	<b>0.438</b>	<b>0.024</b>	<b>0.368</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00001</b>	<b>0.00001</b>	<b>0.0003</b>	<b>0.008</b>	<b>0.000002</b>	<b>0.000005</b>	<b>0.00001</b>	<b>0.000002</b>	<b>0.00001</b>	<b>0.00001</b>	<b>0.008</b>
<b>Total</b>	<b>3374</b>	<b>3374</b>	<b>0.003</b>	<b>0.438</b>	<b>3455</b>	<b>0.368</b>	<b>74.7</b>	<b>0.847</b>	<b>0.053</b>	<b>0.043</b>	<b>46.3</b>	<b>342</b>	<b>12.6</b>	<b>0.00001</b>	<b>0.00001</b>	<b>0.0003</b>	<b>0.008</b>	<b>0.000002</b>	<b>0.000005</b>	<b>0.00001</b>	<b>0.000002</b>	<b>0.00001</b>	<b>0.00001</b>	<b>477</b>

Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
 Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
 14th Street and MasterBrand Cabinets Drive, Jasper, IN 47546

Part 70: T 037-20767-00015  
 Reviewer: Michael A. Morrone/MES  
 Date: September 26, 2007

Controlled Potential Emissions

Significant Emission Units	PM (tons/yr)	PM-10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Ethyl Benzene (tons/yr)	Dibutyl Phalate (tons/yr)	Methanol (tons/yr)	MIBK (tons/yr)	Toluene (tons/yr)	Xylene (tons/yr)	Cumene (tons/yr)	Benzene (tons/yr)	Dichloro-benzene (tons/yr)	Formal-dehyde (tons/yr)	Hexane (tons/yr)	Lead (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Manganese (tons/yr)	Nickel (tons/yr)	Total HAPs (tons/yr)		
SB 6 and SB7	1.40	1.40	0.00	0.00	116	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5	
STB2 and STB3	1.44	1.44	0.00	0.00	348	0.00	0.365	0.00	0.00	0.00	38.7	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.1	
TCB10 and TCB11	1.40	1.40	0.00	0.00	116	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5	
TB1	0.096	0.096	0.00	0.00	202	0.00	0.00	0.00	0.00	0.00	0.176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.180	
SB8	0.701	0.701	0.00	0.00	58.0	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5	
TCB8 and TCB12	1.401	1.401	0.00	0.00	116	0.00	5.10	0.00	0.00	0.00	0.135	23.4	0.836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5	
UFB-1 through UFB-4	9.70	9.70	0.00	0.00	1093	0.00	27.8	0.185	0.053	0.009	5.78	127	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	166	
TBB-1	0.8	0.8	0.00	0.00	810	0.00	0.0	0.662	0.00	0.034	0.796	0.042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	
PSB-1	7.2	7.2	0.00	0.00	596	0.00	26.2	0.00	0.00	0.00	0.307	120	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151	
MC14	24.4	24.4	0.000	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	0.00	0.00	0.00	0.00	0.00	
MC2	4.51	4.51	0.000	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	0.00	0.00	0.00	0.00	0.00	
<b>Subtotal Significant Emission Unit</b>	<b>53.1</b>	<b>53.1</b>	<b>0.00</b>	<b>0.00</b>	<b>3455</b>	<b>0.00</b>	<b>74.7</b>	<b>0.847</b>	<b>0.053</b>	<b>0.043</b>	<b>46.3</b>	<b>342</b>	<b>12.6</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>477</b>	
<i>Insignificant Activities</i>																									
Natural gas-fired combustion	0.008	0.033	0.003	0.438	0.024	0.368	0.00	0.00	0.00	0.00	0.00001	0.00	0.00	0.00001	0.00001	0.0003	0.008	0.000002	0.000005	0.00001	0.000002	0.00001	0.00001	0.008	
<b>Subtotal Insignificant Activities</b>	<b>0.008</b>	<b>0.033</b>	<b>0.003</b>	<b>0.438</b>	<b>0.024</b>	<b>0.368</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00001</b>	<b>0.00001</b>	<b>0.0003</b>	<b>0.008</b>	<b>0.000002</b>	<b>0.000005</b>	<b>0.00001</b>	<b>0.000002</b>	<b>0.00001</b>	<b>0.00001</b>	<b>0.008</b>	
<b>Total</b>	<b>53.1</b>	<b>53.1</b>	<b>0.003</b>	<b>0.438</b>	<b>3455</b>	<b>0.368</b>	<b>74.7</b>	<b>0.847</b>	<b>0.053</b>	<b>0.043</b>	<b>46.3</b>	<b>342</b>	<b>12.6</b>	<b>0.00001</b>	<b>0.00001</b>	<b>0.0003</b>	<b>0.008</b>	<b>0.000002</b>	<b>0.000005</b>	<b>0.00001</b>	<b>0.000002</b>	<b>0.00001</b>	<b>0.00001</b>	<b>477</b>	

Company Name: MasterBrand Cabinets, Inc. - Decora Plants #2 and #3A  
Address City IN Zip: One Masterbrand Cabinets Drive, Jasper, IN 47546 and  
Part 70: T 037-20767-00015  
Reviewer: Michael A. Morrone/MES  
Date: September 26, 2007

Limited & Controlled Potential Emissions

Significant Emission Units	PM (tons/yr)	PM-10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Ethyl Benzene (tons/yr)	Dibutyl Phalate (tons/yr)	Methanol (tons/yr)	MIBK (tons/yr)	Toluene (tons/yr)	Xylene (tons/yr)	Cumene (tons/yr)	Benzene (tons/yr)	Dichloro-benzene (tons/yr)	Formal-dehyde (tons/yr)	Hexane (tons/yr)	Lead (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Manganese (tons/yr)	Nickel (tons/yr)	Total HAPs (tons/yr)				
SB 6 and SB7	64.2	Less than 68.0	0.00	0.00	Less than 249	0.00	0.369	0.00	0.00	0.00	0.010	1.69	0.061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13			
STB2 and STB3			0.00	0.00		0.00	0.00	2.79	0.074	0.000	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	2.89		
TCB10 and TCB11			0.00	0.00		0.00	0.00	0.010	1.69	0.061	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	2.13	
TB1			0.00	0.00		0.00	0.00	0.013	0.00	0.00	0.00	0.00	0.010	1.69	0.061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.013	
SB8			0.00	0.00		0.00	0.00	0.010	1.69	0.061	0.00	0.00	0.010	1.69	0.061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13
TCB8 and TCB12			0.00	0.00		0.00	0.00	0.010	1.69	0.061	0.00	0.00	0.010	1.69	0.061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13
OFB-1 through OFB-4	64.2	Less than 99.0	0.00	0.00	Less than 249	0.00	2.01	0.013	0.004	0.001	0.418	9.22	0.356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.0			
TBB-1			0.00	0.00		0.00	0.002	0.048	0.000	0.002	0.058	0.003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.113		
PSB-1			0.00	0.00		0.00	0.00	0.022	8.70	0.311	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	10.9	
MC14	Less than 24.4	Less than 24.4	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	0.00	0.00	0.00	0.00	0.00	0.00			
MC2	Less than 4.51	Less than 4.51	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	0.00	0.00	0.00	0.00	0.00	0.00			
<b>Subtotal Significant Emission Unit</b>	<b>Less than 158</b>	<b>Less than 196</b>	<b>0.00</b>	<b>0.00</b>	<b>Less than 249</b>	<b>0.00</b>	<b>5.41</b>	<b>0.061</b>	<b>0.004</b>	<b>0.003</b>	<b>3.35</b>	<b>24.8</b>	<b>0.909</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>34.5</b>			
<b>Insignificant Activities</b>																											
Natural gas-fired combustion	0.008	0.033	0.003	0.438	0.024	0.368	0.00	0.00	0.00	0.00	0.00	0.00	0.000001	0.0000004	0.00002	0.001	0.0000002	0.0000003	0.0000004	0.0000001	0.0000001	0.0000001	0.0000001	0.001			
<b>Subtotal Insignificant Activities</b>	<b>0.008</b>	<b>0.033</b>	<b>0.003</b>	<b>0.438</b>	<b>0.024</b>	<b>0.368</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.000001</b>	<b>0.0000004</b>	<b>0.00002</b>	<b>0.001</b>	<b>0.0000002</b>	<b>0.0000003</b>	<b>0.0000004</b>	<b>0.0000001</b>	<b>0.0000001</b>	<b>0.0000001</b>	<b>0.0000001</b>	<b>0.001</b>			
<b>Total</b>	<b>Less than 250</b>	<b>Greater than 100 and Less than 196</b>	<b>0.003</b>	<b>0.438</b>	<b>Less than 250</b>	<b>0.368</b>	<b>5.41</b>	<b>0.061</b>	<b>0.004</b>	<b>0.003</b>	<b>3.35</b>	<b>24.8</b>	<b>0.909</b>	<b>0.000001</b>	<b>0.0000004</b>	<b>0.00002</b>	<b>0.001</b>	<b>0.0000002</b>	<b>0.0000003</b>	<b>0.0000004</b>	<b>0.0000001</b>	<b>0.0000001</b>	<b>0.0000001</b>	<b>34.5</b>			