



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: Nov. 12, 2010

RE: MasterBrand Cabinets, Inc. / 037-29721-00051

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

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval 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 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER-MOD.dot 12/3/07



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Nov. 12, 2010

Michael Decker  
MasterBrand Cabinets, Inc. - Ferdinand Operations  
PO Box 420  
Jasper, IN 47547

Re: 037-29721-00051  
Minor Source Modification to  
Part 70 Operating Permit Renewal No.:  
T037-26606-00051

Dear Mr. Decker,

MasterBrand Cabinets, Inc., was issued Part 70 Operating Permit Renewal No. 037-26606-00051 on April 23, 2009, for a stationary woodworking and surface coating operation manufacturing kitchen and bath cabinets and home entertainment centers. A letter requesting changes to this permit was received on September 23, 2010. Pursuant to 326 IAC 2-7-10.5(d)(3), the following emission units are approved for modification at the source:

- (a) One (1) woodworking cell, identified as WW-8, approved in 2010 for construction, controlled by one (1) 35,000-cubic feet per minute baghouse, identified as BH-8, and exhausting either internally or to stack BHS-8.
- (b) One (1) UV-cured mist coater booth to coat wood molding with a capacity of 378 wood moldings per hour, identified as UVMC-1, approved in 2010 for construction, and exhausting to stack UVS-1.
- (c) One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

- 1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
- 2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
- 3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to issuance of the Part 70 Operating Permit to incorporate the required operation conditions.

This minor source modification authorizes the construction or reconfiguration of the one (1) automated spray booth, identified as STB-20; one (1) UV-cured mist coater booth; and one (1) woodworking cell, identified as WW-8. Operating conditions shall be incorporated into the Part 70 Operating Permit Renewal as a significant permit modification in accordance with 326 IAC 2-7-12(b)(1)(C).

All other conditions of the permit shall remain unchanged and in effect.

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Angela Taylor, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or call at (800) 451-6027, and ask for Angela Taylor or extension (4-6543), or dial (317) 234-6543.

Sincerely,



Chrystal A. Wagner, Section Chief  
Permits Branch  
Office of Air Quality

APT

cc: File - Dubois County  
U.S. EPA, Region V  
Dubois County Health Department  
Southwest Regional Office  
Southeast Regional Office

Attachments:  
Minor Source Modification 037-29721-00051  
Technical Support Document (TSD)  
Calculations



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**MINOR SOURCE MODIFICATION TO A  
PART 70 SOURCE  
OFFICE OF AIR QUALITY**

**MasterBrand Cabinets, Inc.  
614 West Third Street  
Ferdinand, Indiana 47532**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-2 and 326 IAC 2-7-10.5, applicable to those conditions.

|   |                                 |
|---|---------------------------------|
| Minor Source Modification No.: T037-29721-00051   |                                 |
| Issued by:<br><br>Chrystal A. Wagner, Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date:<br>Nov. 12, 2010 |

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## SECTION A

## SOURCE SUMMARY

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

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

---

The Permittee owns and operates a stationary kitchen and bath cabinet manufacturing operation.

|                              |  |
|------------------------------|--|
| Source Address:              | 614 West Third Street, Ferdinand, Indiana 47532  |
| General Source Phone Number: | 812-639-2940   |
| SIC Code:                    | 2434   |
| County Location:             | Dubois   |
| Source Location Status:      | Nonattainment for PM <sub>2.5</sub> standard<br>Attainment for all other criteria pollutants   |
| Source Status:               | Part 70 Operating Permit Program<br>Major Source, under PSD and Nonattainment NSR Rules<br>Major Source, Section 112 of the Clean Air Act<br>Not 1 of 28 Source Categories |

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

---

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

- (a) One (1) conventional surface coating line, constructed in 1973. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The conventional surface coating line is comprised of the following surface coating facilities:
- (1) One (1) toner booth, identified as CLB-1, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-1;
  - (2) One (1) stain booth, identified as CLB-2, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-2;
  - (3) One (1) sealer booth, identified as CLB-3, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-3 and CLS-4;
  - (4) One (1) top coat booth, identified as CLB-4, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-5 and CLS-6;
  - (5) One (1) parts booth, identified as CLB-5, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-7;
  - (6) One (1) parts booth, identified as CLB-6, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-8; and

- (7) One (1) natural gas-fired oven identified as OV-1, constructed in 1973, with a maximum heat input capacity of 1 Million British Thermal Units per hour (MMBtu), and exhausting to stack OVS-1.
- (b) Woodworking equipment controlled by baghouses, including:
- (1) One (1) woodworking cell, identified as WW-1, constructed in 1968, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-1, and exhausting either internally or to stack BHS-1;
  - (2) One (1) woodworking cell, identified as WW-2, constructed in 1998, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-2, and exhausting either internally or to stack BHS-2;
  - (3) One (1) woodworking cell, identified as WW-3, constructed in 1968, controlled by a 35,000 cubic feet per minute baghouse, identified as BH-3, and exhausting either internally or to stack BHS-3.
  - (4) One (1) woodworking cell, identified as WW-4, constructed in 1997, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-4, and exhausting either internally or to stack BHS-4;
  - (5) One (1) woodworking cell, identified as WW-5, constructed in 1986, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-5, and exhausting either internally or to stack BHS-5;
  - (6) One (1) woodworking cell, identified as WW-6, constructed in 1986, controlled by a 48,000 cubic feet per minute baghouse, identified as BH-6, and exhausting either internally or to stack BHS-6.
  - (7) One (1) woodworking cell, identified as WW-7, to be constructed in 2005, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-7, and exhausting either internally or to stack BHS-7.
  - (8) One (1) woodworking cell, identified as WW-8, approved in 2010 for construction, controlled by one (1) 35,000 cubic feet per minute baghouse, identified as BH-8, and exhausting either internally or to stack BHS-8.
- (c) One (1) finishing line, identified as Line A, approved for construction in 2005 and completed in 2008. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The Line A finishing line consists of the following facilities:
- (1) Two (2) toner spray booths, identified as LAB-1 and LAB-2, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (2) Two (2) stain spray booths, identified as LAB-3 and LAB-4, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (3) Two (2) sealer booths, identified as LAB-5 and LAB-6, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LAS-5 and LAS-6, respectively.

- (4) Two (2) topcoat booths, identified as LAB-7 and LAB-8, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LAS-7 and LAS-8, respectively.
  - (5) Two (2) sanding operations (associated with Line A), controlled by a cartridge filter type dust collector DC-1, and exhausting 22,500 cubic feet per minute through stack DCS-1A and 22,500 cubic feet per minute through stack DCS-1B.
- (d) One (1) finishing line, identified as Line B, approved for construction in 2005. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The Line B finishing line consists of the following facilities:
- (1) Two (2) toner spray booths, identified as LBB-1 and LBB-2, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (2) Two (2) stain spray booths, identified as LBB-3 and LBB-4, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (3) Two (2) sealer booths, identified as LBB-5 and LBB-6, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LBS-5 and LBS-6, respectively.
  - (4) Two (2) topcoat booths, identified as LBB-7 and LBB-8, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LBS-7 and LBS-8, respectively.
  - (5) Two (2) sanding operations (associated with Line B), controlled by a cartridge filter type dust collector DC-1, and exhausting 22,500 cubic feet per minute through stack DCS-1A and 22,500 cubic feet per minute through stack DCS-1B.

A.3 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) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6.5]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (c) Emission units with PM and PM<sub>10</sub> emissions less than five (5) tons per year, SO<sub>2</sub>, NO<sub>x</sub>, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:
  - (1) One (1) natural gas-fired oven, identified as OV-2, with a maximum heat input capacity of 1 MMBtu per hour, and exhausting at stack OVS-2. [326 IAC 6.5]

- (d) One (1) manual spray booth, identified as STB-19 constructed in 2003, with a maximum capacity of 220 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-5. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (e) One (1) Edge-banding process applying veneer to wood panels, using a PVA adhesive meeting the definition of a *Non-HAP coating*, specified in 40 CFR 63, Subpart DDDD as a coating with HAP contents below 0.1 percent by mass for Occupational Safety and Health Administration-defined carcinogens as specified in 29 CFR 1910.1200(d)(4), and below 1.0 percent by mass for other HAP compounds. Under 40 CFR 63, Subpart DDDD, this edge-banding process is considered an existing affected source at a PCWP manufacturing facility.
- (f) One (1) Regenerative thermal oxidizer utilized for VOC control, with a maximum heat input capacity of 7.9 MMBtu/hr and a maximum flow rate of 30,000 acfm.[326 IAC 2-2]
- (g) One (1) end coat booth, identified as UVPB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack UVPS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (h) One (1) UV Stickline, identified as UVC-4, constructed in 1999, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (i) One (1) UV Flatline, identified as UVC-3, constructed in 1994, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (j) One (1) UV Stickline, identified as UVC-2, constructed in 1994, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (k) One (1) UV-cured mist coater booth to coat wood molding with a capacity of 378 wood moldings per hour, identified as UVMC-1, approved in 2010 for construction, and exhausting to stack UVS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (l) One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

A.4 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, T037-26606-00051, 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 or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

(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] [IC 13-17-12]**

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. 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) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
  - (c) A "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 and Enforcement 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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]

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

- (c) 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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) 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, or Southeast Regional Office and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or

Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)

Facsimile Number: 317-233-6865

Southeast Regional Office phone: (812) 358-2027; fax: (812) 358-2058

Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304

- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

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

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

- (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
- (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T037-26606-00051 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, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.16 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 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) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a

Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) 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.18 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 or notice 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.19 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  
Permit Administration and Support Section, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.
- (f) This condition does not apply to emission trades of SO<sub>2</sub> or NO<sub>x</sub> under 326 IAC 21 or 326 IAC 10-4.

**B.20 Source Modification Requirement [326 IAC 2-7-10.5]**

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

**B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]**

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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.22 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.23 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.24 Advanced Source Modification Approval [326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]

- (a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

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 5-1-1 (Applicability) and 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.

#### C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

#### 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 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  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 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 that meets the requirements of 326 IAC 2-7-6(1) by a "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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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

a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.7 Compliance Requirements [326 IAC 2-1.1-11]**

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

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Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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 and Enforcement 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.9 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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

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

#### **C.10 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 shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (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.11 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.12 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.13 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.14 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]**

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]  
[326 IAC 2-2][326 IAC 2-3]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the "project" (as defined in

326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II) at an existing emissions unit, document and maintain the following records:

- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
  - (i) Baseline actual emissions;
  - (ii) Projected actual emissions;
  - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
  - (1) 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
  - (2) 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.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (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 except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, 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) 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.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than 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 (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

- (g) 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.17 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 applicable standards for recycling and emissions reduction.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description 1:

- (a) One (1) conventional surface coating line, constructed in 1973. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The conventional surface coating line is comprised of the following surface coating facilities:
- (1) One (1) toner booth, identified as CLB-1, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-1;
  - (2) One (1) stain booth, identified as CLB-2, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-2;
  - (3) One (1) sealer booth, identified as CLB-3, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-3 and CLS-4;
  - (4) One (1) top coat booth, identified as CLB-4, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-5 and CLS-6;
  - (5) One (1) parts booth, identified as CLB-5, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-5 and CLS-6;
  - (6) One (1) parts booth, identified as CLB-6, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-7; and
  - (7) One (1) natural gas-fired oven identified as OV-1, constructed in 1973, with a maximum heat input capacity of 1 Million British Thermal Units per hour (MMBtu), and exhausting to stack OVS-1.
- (b) One (1) natural gas-fired oven, identified as OV-2, with a maximum heat input capacity of 1 MMBtu per hour, and exhausting at stack OVS-2. [326 IAC 6.5]
- (c) One (1) UV Stickline, identified as UVC-4, constructed in 1999, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (d) One (1) UV Flatline, identified as UVC-3, constructed in 1994, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (e) One (1) UV Stickline, identified as UVC-2, constructed in 1994, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (f) One (1) UV-cured mist coater booth to coat wood molding with a capacity of 378 wood moldings per hour, identified as UVMC-1, approved in 2010 for construction, and exhausting to stack UVS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (g) One (1) manual spray booth, identified as STB-19, constructed in 2003, with a maximum capacity of 220 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-5. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

**Emissions Unit Description 1 (Continued):**

- (h) One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (i) One (1) end coat booth, identified as UVPB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack UVPS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

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

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

**D.1.1 Particulate Matter Emission Limitations Except Lake County [326 IAC 6.5]**

Pursuant to 326 IAC 6.5 (Particulate Matter Emission Limitations Except Lake County), the particulate matter emissions from the conventional surface coating line (CLB-1 through CLB-6), the one (1) end coat booth (UVPB-1), the UV Sticklines (UVC-2 and UVC-4), the UV Flatline (UVC-3), the one (1) UV-cured mist coater booth (UVMC-1), one (1) manual spray booth (STB-19), one (1) automated spray booth (STB-20), and the two (2) natural gas-fired ovens (OV1 and OV-2), shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

**D.1.2 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 by the end coat booth ( UVPB-1), the one (1) automated spray booth (STB-20), and the UV Sticklines (UVC-4 and UVC-2), and the UV Flatline (UVC-3), each shall utilize one (1) 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.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements**

**D.1.4 Particulate Control**

In order to comply with Condition D.1.1, the dry filters for particulate control shall be in operation and control particulate emissions from the conventional surface coating line (CLB-1 through CLB-6), the one (1) end coat booth (UVPB-1), the one (1) manual spray booth (STB-19), and the one (1) automated spray booth (STB-20) at all times that these facilities are in operation.

## Compliance Monitoring Requirements

### D.1.5 Monitoring

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- (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 CLS-1 through CLS-7, STS-5, UVPS-1, and STS-6 while one or more of the booths are in operation. Section C-Response to Excursions or Exceedences contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
  
- (b) Monthly inspections shall be performed of the coating emissions from the spray booths in the Conventional surface coating line identified as CLB-1 through CLB-6 (stacks CLS-1 through CLS-7), STB-19 (stack STS-5), UVPB-1 (stack UVPS-1), and STB-20 (stack STS-6) for the presence of overspray on the rooftops and the nearby ground. Section C-Response to Excursions or Exceedences contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

These monitoring conditions are necessary because these spray booths and the associated controls must operate properly to ensure compliance with 326 IAC 6.5 (Particulate Matter Limitations Except Lake County).

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

### D.1.6 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.1.4, the Permittee shall comply with the following:
  - (1) The Permittee shall maintain a log of weekly overspray observations and monthly inspections.
  - (2) The Permittee shall maintain a log of daily inspections. The Permittee shall include in its daily log when an inspection was not performed and the reason for the lack of an inspection (e.g. the process did not operate that day).
  
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description 2:

- (a) Woodworking equipment controlled by baghouses, including:
  - (1) One (1) woodworking cell, identified as WW-1, constructed in 1968, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-1, and exhausting either internally or to stack BHS-1;
  - (2) One (1) woodworking cell, identified as WW-2, constructed in 1998, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-2, and exhausting either internally or to stack BHS-2;
  - (3) One (1) woodworking cell, identified as WW-3, constructed in 1968, controlled by a 35,000 cubic feet per minute baghouse, identified as BH-3, and exhausting either internally or to stack BHS-3.
  - (4) One (1) woodworking cell, identified as WW-4, constructed in 1997, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-4, and exhausting either internally or to stack BHS-4;
  - (5) One (1) woodworking cell, identified as WW-5, constructed in 1986, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-5, and exhausting either internally or to stack BHS-5;
  - (6) One (1) woodworking cell, identified as WW-6, constructed in 1986, controlled by a 48,000 cubic feet per minute baghouse, identified as BH-6, and exhausting either internally or to stack BHS-6.
  - (7) One (1) woodworking cell, identified as WW-7, to be constructed in 2005, controlled by a 61,000 cubic feet per minute baghouse, identified as BH-7, and exhausting either internally or to stack BHS-7.
  - (8) One (1) woodworking cell, identified as WW-8, approved in 2010 for construction, controlled by one (1) 35,000 cubic feet per minute baghouse, identified as BH-8, and exhausting either internally or to stack BHS-8.
- (b) Two (2) sanding operations (associated with Line A) , controlled by a cartridge filter type dust collector DC-1, and exhausting 22,500 cubic feet per minute through stack DCS-1A and 22,500 cubic feet per minute through stack DCS-1B.
- (c) Two (2) sanding operations (associated with Line B), controlled by a cartridge filter type dust collector DC-1, and exhausting 22,500 cubic feet per minute through stack DCS-1A and 22,500 cubic feet per minute through stack DCS-1B.
- (d) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].

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

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

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

Pursuant to Significant Source Modification No. 037-20223-00051 (issued August 26, 2005) and Significant Permit Modification No. 037-20407-00051 (issued September 15, 2005), and as revised by this Part 70 Permit Renewal No. 037-26606-00051, in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

The facilities identified as WW-2 WW-4, WW-5, WW-6, WW-7 and the four (4) sanding operations associated with Lines A and B, shall not exceed the following pound per hour limitations:

- (a) The PM emissions from cartridge filter DC-1 shall not exceed 2.5 lbs/hr.
- (b) The PM<sub>10</sub> emissions from cartridge filter DC-1 shall not exceed 1.2 lbs/hr.
- (c) The PM emissions from baghouse BH-7 shall not exceed 2.6 lbs/hr.
- (d) The PM<sub>10</sub> emissions from baghouse BH-7 shall not exceed 1.6 lbs/hr.
- (e) The PM emissions from baghouse BH-2 shall not exceed 5.68 lbs/hr.
- (f) The PM<sub>10</sub> emissions from baghouse BH-2 shall not exceed 3.4 lbs/hr.
- (g) The PM emissions from baghouse BH-4 shall not exceed 5.68 lbs/hr.
- (h) The PM<sub>10</sub> emissions from baghouse BH-4 shall not exceed 3.4 lbs/hr.
- (i) The PM emissions from baghouse BH-5 and Baghouse BH-6 combined shall not exceed 5.68 lbs/hr.

These emission limits ensure that the PM and PM<sub>10</sub> emissions increase from the modifications permitted in Significant Source Modification No. 037-20223-00051 (issued August 26, 2005) and Significant Permit Modification No. 037-20407-00051 (issued September 15, 2005) are less than twenty-five (25) and fifteen (15) tons per twelve (12) consecutive month period, respectively. Compliance with these limits renders 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

#### D.2.2 PSD Minor and Nonattainment NSR Limit [326 IAC 2-2][ 326 IAC 2-1.1-5]

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In order to render the requirements of 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable, the Permittee shall comply with the following limits:

The one (1) woodworking cell, identified as WW-8, exhausting to the one (1) baghouse identified as BH-8, through stack BHS-8, shall not exceed the following emissions limitations:

- (1) The PM emissions from baghouse BH-8 shall not exceed 5.0 lbs/hr.
- (2) The PM<sub>10</sub> emissions from baghouse BH-8 shall not exceed 2.8 lbs/hr.
- (3) The PM<sub>2.5</sub> emissions from baghouse BH-8 shall not exceed 1.66 lbs/hr.

Compliance with these emission limits, combined with the unlimited potential emissions from the surface coating units STB-20 and UVMC, will ensure that the emissions from this modification (MSM 037-29721-00051) is less than twenty-five (25) tons of PM per year, fifteen (15) tons of PM<sub>10</sub> per year, and ten (10) tons of PM<sub>2.5</sub> per year.

#### D.2.3 Particulate Matter Emission Limitations [326 IAC 6.5-1]

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Pursuant to 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County), the particulate matter emissions from the woodworking operations (WW-1, WW-2, WW-3, WW-4, WW-5, WW-6, WW-7, and WW-8) and the four (4) sanding operations (two (2) associated with Line A and two (2) associated with Line B) shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf) of exhaust air.

#### D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

## Compliance Determination Requirements

### D.2.5 Particulate Matter Control (PM and PM<sub>10</sub>)

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In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the baghouses and cartridge/dry filters for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> control shall be in operation and control emissions from the woodworking facilities (WW-1, WW-2, WW-3, WW-4, WW-5, WW-6, WW-7, WW-8) and the four (4) sanding operations associated with Lines A and B at all times that the facilities are in operation.

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

### D.2.6 Visible Emissions Notations

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- (a) Visible emission notations of the baghouse stack exhaust from stacks BHS-1 through BHS-8 and stacks DCS-1A and DCS-1B shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

### D.2.7 Broken or Failed Bag Detection

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In the event that bag failure has been observed:

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the aggregate dryer/burner. 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 pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces, or triboflows.

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

**D.2.8 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.2.5, the Permittee shall maintain records of daily visible emission notations of the baghouse exhausts when venting to the atmosphere.
  
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

## SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description 3:

- (a) One (1) finishing line, identified as Line A, approved for construction in 2005 and completed in 2008. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The Line A finishing line consists of the following facilities:
  - (1) Two (2) toner spray booths, identified as LAB-1 and LAB-2, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (2) Two (2) stain spray booths, identified as LAB-3 and LAB-4, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (3) Two (2) sealer booths, identified as LAB-5 and LAB-6, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LAS-5 and LAS-6, respectively.
  - (4) Two (2) topcoat booths, identified as LAB-7 and LAB-8, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LAS-7 and LAS-8, respectively.
- (b) One (1) finishing line, identified as Line B, approved for construction in 2005. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The Line B finishing line consists of the following facilities:
  - (1) Two (2) toner spray booths, identified as LBB-1 and LBB-2, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (2) Two (2) stain spray booths, identified as LBB-3 and LBB-4, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (3) Two (2) sealer booths, identified as LBB-5 and LBB-6, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LBS-5 and LBS-6, respectively.
  - (4) Two (2) topcoat booths, identified as LBB-7 and LBB-8, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LBS-7 and LBS-8, respectively.
- (c) One (1) Regenerative thermal oxidizer utilized for VOC control, with a maximum heat input capacity of 7.9 MMBtu/hr and a maximum flow rate of 30,000 acfm.
- (d) One (1) halogen oven, identified as OV-3, equipped in conjunction with Line A, controlled by the existing RTO, and exhausting through stack RTOS-1.
- (e) One (1) halogen oven, identified as OV-13, equipped in conjunction with Line B, controlled by the existing RTO, and exhausting through stack RTOS-1.

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

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

### D.3.1 PSD Minor Limits [326 IAC 2-2]

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- (a) Pursuant to Significant Source Modification No. 037-20223-00051 (issued August 26, 2005), Significant Permit Modification No. 037-20407-00051 (issued September 15, 2005), and as revised by this Significant Permit Modification, the VOC and particulate matter emissions from the finishing Lines A and B have been limited in order to render the requirements of 326 IAC 2-2 (PSD) not applicable. Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration), the Permittee shall comply with the following:
- (1) The input of VOC to spray booths LAB-1 through LAB-8 and LBB-1 through LBB-8 shall be limited such that the VOC emissions shall be less than three hundred thirty-one (331) tons per twelve (12) consecutive month period with compliance determined at the end of each month. When using the RTO to comply with this limitation, the following formula shall be used to determine compliance:
- $$i \text{ (VOC Emissions (tons/month))} = ((1 - (\text{DRE} \times \text{Ecap}) \times X) + Y)$$
- Where:
- $i$  = VOC emissions for month in tons per month.
- Ecap = Averaged Capture Efficiency for Spray Booths LAB-1 through LAB-4 and LBB-1 through LBB-4, which will be determined by Condition D.3.6.
- DRE = Averaged Destruction Removal Efficiency for Spray Booth LAB1 through LAB-4 and LBB-1 through LBB-4, which will be determined by Condition D.3.6.
- $X$  = Total monthly VOC Input to Spray Booths LAB-1 through LAB-4 and LBB-1 through LBB-4.
- $Y$  = Total monthly VOC Input to Spray Booths LAB-5 through LAB-8 and LBB-5 through LBB-8.
- (b) The PM/PM<sub>10</sub> emissions from spray booths LAB-1 through LAB-8 and LBB-1 through LBB-8 shall not exceed 2.43 tons/yr. The Permittee will show compliance with this limit by using dry filters for all these booths and vent the emissions from booths LAB-1 through LAB-4 and LBB-1 through LBB-4 to the existing RTO. The cartridge/dry filters, shall be in operation at all times when these emission units are in operation.

Compliance with these limits shall ensure that the VOC emissions increase from the installation of Lines A and B are below thirty-nine (39) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

### D.3.2 Particulate Matter Limitations Except Lake County [326 IAC 6.5-1]

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Pursuant to 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County), the particulate matter emissions from the each of the spray coating booths in Line A and Line B (LAB-1 through LAB-8 and LBB-1 through LAB-8) shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf) of exhaust air.

### D.3.3 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]

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Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), the surface coating applied to wood furniture and cabinets in the finishing Lines A and B (LAB-1 through LAB-8 and LBB-1 through LAB-8), shall utilize one of the following application methods:

- Airless Spray Application
- Heated Airless Spray Application
- Air Assisted Airless Spray Application

Roller Coating  
Electrostatic Spray Application  
Brush or Wipe Application  
Electrostatic Bell or Disc 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.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

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A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

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

**D.3.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]**

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Compliance with the VOC usage content limitations contained in Condition D.3.1(a) 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.3.6 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)]**

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- (a) In order to demonstrate compliance with Condition D.3.1(a), the Permittee shall perform a VOC destruction efficiency test for the existing RTO not later than 180 days after the issuance of this permit (T037-26606-00051), utilizing methods as approved by the Commissioner at least once every five (5) years from the date of this the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (b) In order to demonstrate compliance with Condition D.3.1(a), the Permittee shall perform VOC capture efficiency testing for spray booths LAB-1 through LAB-4, not later than 180 days after the issuance of this permit (T037-26606-00051), utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (c) In order to demonstrate compliance with Condition D.3.1(a), the Permittee shall perform VOC capture efficiency testing for spray booths LAB-1 through LAB-4 and LBB-1 through LBB-4, not later than 180 days after initial startup of Line B, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

**D.3.7 VOC Control**

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- (a) In order to comply with Condition D.3.1(a), the existing thermal oxidizer shall be in operation and control emissions from the spray booths LAB-1 through LAB-4 and LBB-1 through LBB-4 at all times that the source is using the RTO to comply with the VOC emission limitation established in D.3.1(a).

- (b) When using the RTO to comply with Condition D.3.1(a), the emissions from spray booths LAB-1 through LAB-4 and LBB-1 through LBB-4 shall be controlled by a RTO with a destruction efficiency determined by Condition D.3.6.

#### D.3.8 PM and PM<sub>10</sub> Control

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In order to comply with Conditions D.3.1(b) and D.3.2, dry filters shall be in operation and control emissions from the spray booths LAB-1 through LAB-8 and LBB-1 through LBB-8 at all times that these units are in operation.

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

#### D.3.9 Thermal Oxidizer Temperature [40 CFR 64.2 (CAM)]

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- (a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer (RTO) for measuring operating temperature. For the purpose of this condition, continuous means no less than once per minute. The output of this system shall be recorded as a 3-hour average. From the date of issuance of this permit until the approved stack test results are available, the Permittee shall operate the thermal oxidizer at or above the 3-hour average temperature of 1,400°F.
- (b) The Permittee shall determine the 3-hour average temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.3.1(a), as approved by IDEM.
- (c) On and after the date the approved stack test results are available, the Permittee shall operate the thermal oxidizer at or above the 3-hour average temperature as observed during the compliant stack test.

#### D.3.10 Parametric Monitoring [40 CFR 64.2 (CAM)]

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- (a) The Permittee shall determine the appropriate duct pressure or fan amperage from the most recent valid stack test that demonstrates compliance with limits in Condition D.3.1(a), as approved by IDEM.
- (b) The duct pressure or fan amperage shall be observed at least once per day when the thermal oxidizer is in operation. On and after the date the approved stack test results are available, the duct pressure or fan amperage shall be maintained within the normal range as established in most recent compliant stack test.

#### D.3.11 Monitoring

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- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters for spray booths LAB-1 through LAB-4 and LBB-1 through LBB-4. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks LAS-5 through LAS-8 and LBS-5 through LBS-8 while one or more of the booths are in operation. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the two (2) finishing lines A and B, for the booths identified as LAB-5 through LAB-8 and LBB-5 through LBB-8 (stacks LAS-5 through LAS-8 and LBS-5 through LBS-8), for the presence of overspray on the rooftops and the nearby ground. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

### **D.3.12 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.3.1(a), the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limitations established Condition D.3.1(a):
  - (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on monthly basis.
    - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
    - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
  - (3) The total monthly VOC usage for spray booths Booths LAB-1 through LAB-4 and LBB-1 through LBB-4.
  - (4) The total monthly VOC usage for spray booths LAB-5 through LAB-8 and LBB-5 through LBB-8.
- (b) To document the compliance status with Condition D.3.9, the Permittee shall maintain continuous temperature records for the thermal oxidizer and the 3-hour average temperature used to demonstrate compliance during the most recent compliant stack test.
- (c) To document the compliance status with Condition D.3.10, the Permittee shall maintain daily records of the duct pressure or fan amperage for the thermal oxidizer.
- (d) To document the compliance status with Condition D.3.11, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

### **D.3.13 Reporting Requirements**

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A quarterly report of VOC emissions and a quarterly summary of the information to document the compliance status with Condition D.3.1(a) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description 4:

- (a) One (1) conventional surface coating line, constructed in 1973. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The conventional surface coating line is comprised of the following surface coating facilities:
  - (1) One (1) toner booth, identified as CLB-1, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-1;
  - (2) One (1) stain booth, identified as CLB-2, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-2;
  - (3) One (1) sealer booth, identified as CLB-3, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-3 and CLS-4;
  - (4) One (1) top coat booth, identified as CLB-4, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-5 and CLS-6;
  - 5) One (1) parts booth, identified as CLB-5, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stacks CLS-5 and CLS-6;
  - (6) One (1) parts booth, identified as CLB-6, with a maximum capacity of 225 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack CLS-7; and
  - (7) One (1) natural gas-fired oven identified as OV-1, constructed in 1973, with a maximum heat input capacity of 1 Million British Thermal Units per hour (MMBtu), and exhausting to stack OVS-1.
- (b) One (1) UV Stickline, identified as UVC-4, constructed in 1999, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (c) One (1) UV Flatline, identified as UVC-3, constructed in 1994, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (d) One (1) UV Stickline, identified as UVC-2, constructed in 1994, and exhausting internally. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components;
- (e) One (1) UV-cured mist coater booth to coat wood molding with a capacity of 378 wood moldings per hour, identified as UVMC-1, approved in 2010 for construction, and exhausting to stack UVS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (f) One (1) manual spray booth, identified as STB-19 constructed in 2003, with a maximum capacity of 220 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-5. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (g) One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (h) One (1) end coat booth, identified as UVPB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack UVPS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

## SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS (Continued)

### Emissions Unit Description 4 (Continued):

- (i) One (1) finishing line, identified as Line A, approved for construction in 2005 and completed in 2008. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The Line A finishing line consists of the following facilities:
  - (1) Two (2) toner spray booths, identified as LAB-1 and LAB-2, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (2) Two (2) stain spray booths, identified as LAB-3 and LAB-4, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (3) Two (2) sealer booths, identified as LAB-5 and LAB-6, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LAS-5 and LAS-6, respectively.
  - (4) Two (2) topcoat booths, identified as LAB-7 and LAB-8, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LAS-7 and LAS-8, respectively.
- (j) One (1) finishing line, identified as Line B, approved for construction in 2005. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components. The Line B finishing line consists of the following facilities:
  - (1) Two (2) toner spray booths, identified as LBB-1 and LBB-2, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (2) Two (2) stain spray booths, identified as LBB-3 and LBB-4, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using dry filters for particulate control and using the existing RTO for VOC control, and exhausting through stack RTOS-1.
  - (3) Two (2) sealer booths, identified as LBB-5 and LBB-6, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LBS-5 and LBS-6, respectively.
  - (4) Two (2) topcoat booths, identified as LBB-7 and LBB-8, equipped with spray application equipment as described in 326 IAC 8-2-12 (airless air assisted or HVLP), using UV curable coatings and dry filters for particulate control, and exhausting through stacks LBS-7 and LBS-8, respectively.
- (k) One (1) Regenerative thermal oxidizer utilized for VOC control, with a maximum heat input capacity of 7.9 MMBtu/hr and a maximum flow rate of 30,000 acfm.
- (l) One (1) halogen oven, identified as OV-3, equipped in conjunction with Line A, controlled by the existing RTO, and exhausting through stack RTOS-1.
- (m) One (1) halogen oven, identified as OV-13, equipped in conjunction with Line B, controlled by the existing RTO, and exhausting through stack RTOS-1.

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

**National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements:**

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

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- (a) Pursuant to 40 CFR 63.800, 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 unless otherwise specified in 40 CFR 63, Subpart JJ (National Emission Standards for Wood Furniture Manufacturing Operations), for the conventional line surface coating operations, the finishing line (Line A) surface coating operations, the finishing line (Line B) surface coating operations, the one (1) end coat booth (UVPB-1), UV Sticklines (UVC-4 and UVC-2), UV Flatline (UVC-3), the one (1) UV cured mist coater (UVMC-1), and the two (2) spray booths (STB-19 and STB-20).
  
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

**E.1.2 National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations [40 CFR 63, Subpart JJ]**

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Pursuant to 40 CFR Part 63, Subpart JJ, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart JJ for the conventional line surface coating operations, the finishing line (Line A) surface coating operations, the finishing line (Line B) surface coating operations, the one (1) end coat booth (UVPB-1), UV Sticklines (UVC-4 and UVC-2), UV Flatline (UVC-3), UV cured mist coater (UVMC-1), and the two (2) spray booths (STB-19 and STB-20) and all other activities associated with the wood furniture manufacturing operations as specified in 40 CFR Part 63, Subpart JJ. All of the wood furniture coating operations and emission units listed above must comply with the following provisions of 40 CFR Part 63, Subpart JJ:

- 1) 40 CFR 63.800 (a)(b)(c)(d)(e)(f)(g)
- 2) 40 CFR 63.801 (a)
- 3) 40 CFR 63.802 (a)
- 4) 40 CFR 63.803 (a)(b)(c)(d)(e)(f)(g)(h)(i)(j)(k)(l)
- 5) 40 CFR 63.804 (a)(b)(c)(f)(g)
- 6) 40 CFR 63.805 (a)(b)(c)(d)(e)
- 7) 40 CFR 63.806 (a)(b)(c)(d)(e)(f)(g)(h)(i)(j)
- 8) 40 CFR 63.807 (a)(b)(c)(d)(e)
- 9) 40 CFR 63.808 (a)(b)(c)
- 10) Table 1
- 11) Table 2
- 12) Table 3
- 13) Table 4
- 14) Table 5
- 15) Table 6

## SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description 5:

- (a) One (1) Edge-banding process applying veneer to wood panels, using a PVA adhesive meeting the definition of a *Non-HAP coating*, specified in 40 CFR 63, Subpart DDDD as a coating with HAP contents below 0.1 percent by mass for Occupational Safety and Health Administration-defined carcinogens as specified in 29 CFR 1910.1200(d)(4), and below 1.0 percent by mass for other HAP compounds. Under 40 CFR 63, Subpart DDDD, this edge-banding process is considered an existing affected source at a PCWP manufacturing facility.

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

### National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements:

#### E.2.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.800, 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 unless otherwise specified in 40 CFR 63, Subpart DDDD (National Emission Standards for Plywood and Composite Wood Products), for the one (1) Edge-banding process applying veneer to wood panels.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

#### E.2.2 National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products [40 CFR 63, Subpart DDDD]

Pursuant to 40 CFR Part 63, Subpart DDDD, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart DDDD for the insignificant edge-banding operations and all other activities associated with the production of plywood or composite wood products as specified in 40 CFR Part 63, Subpart DDDD. The insignificant edge-banding operations must comply with the provisions of 40 CFR Part 63, Subpart DDDD:

- (1) 63.2230
- (2) 63.2231 (a) (b)
- (3) 63.2232 (a) (b) (e)
- (4) 63.2233 (b) (d)
- (5) 63.2250 (a) (b)
- (6) 63.2252

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: MasterBrand Cabinets, Inc.  
Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
Part 70 Permit No.: T037-26606-00051

**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 AND ENFORCEMENT 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.  
Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
Part 70 Permit No.: T037-26606-00051

**This form consists of 2 pages**

**Page 1 of 2**

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

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

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

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

**Page 2 of 2**

|   |
|---|
| Date/Time Emergency started:  |
| Date/Time Emergency was corrected:  |
| Was the facility being properly operated at the time of the emergency?    Y    N  |
| 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: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: MasterBrand Cabinets, Inc.  
 Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
 Part 70 Permit No.: T037-26606-00051  
 Facility: Finishing Lines A and B  
 Parameter: VOC Emissions  
 Limit: The input of VOC to spray booths LAB-1 through LAB-8 and LBB-1 through LBB-8 shall be limited such that the VOC emissions shall be less than three hundred thirty-one (331) tons per twelve (12) consecutive month period with compliance determined at the end of each month. When using the RTO to comply with this limitation, the following formula shall be used to determine compliance:

$$i \text{ (VOC Emissions (tons/month))} = ((1 - (\text{DRE} \times \text{Ecap}) \times X) + Y)$$

Where:  $i$  = VOC emissions for month in tons per month.

Ecap = Averaged Capture Efficiency for Spray Booths LAB-1 through LAB-4 and LBB-1 through LBB-4, which will be determined by Condition D.3.6.

DRE = Averaged Destruction Removal Efficiency for Spray Booth LAB1 through LAB-4 and LBB-1 through LBB-4, which will be determined by Condition D.3.6.

X = Total monthly VOC Input to Spray Booths LAB-1 through LAB-4 and LBB-1 through LBB-4.

Y = Total monthly VOC Input to Spray Booths LAB-5 through LAB-8 and LBB-5 through LBB-8.

QUARTER :

YEAR:

| Month   | Column 1   | Column 2           | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
|         | This Month | Previous 11 Months | 12 Month Total      |
| Month 1 |            |                    |                     |
| Month 2 |            |                    |                     |
| Month 3 |            |                    |                     |

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE AND ENFORCEMENT BRANCH  
 PART 70 OPERATING PERMIT  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: MasterBrand Cabinets, Inc.  
 Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
 Part 70 Permit No.: T037-26606-00051

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

|   |                               |
|---|-------------------------------|
| This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, 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". |                               |
| <input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.  |                               |
| <input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD  |                               |
| <b>Permit Requirement</b> (specify permit condition #)  |                               |
| <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</b> (specify permit condition #)  |                               |
| <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</b> (specify permit condition #) |                               |
| <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</b> (specify permit condition #) |                               |
| <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</b> (specify permit condition #) |                               |
| <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: \_\_\_\_\_

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

**Attachment A  
to a  
Part 70 Operating Permit**

**Source Background and Description**

|                       |   |
|-----------------------|---|
| Source Name:          | MasterBrand Cabinets, Inc. - Ferdinand Operations |
| Source Location:      | 614 West Third Street, Ferdinand, Indiana 47532   |
| County:               | Dubois  |
| SIC Code:             | 2434  |
| Operation Permit No.: | T037-26606-00051                                  |
| Permit Reviewer:      | APT   |

**Subpart JJ—National Emission Standards for Wood Furniture Manufacturing Operations**

**Source:** 60 FR 62936, Dec. 7, 1995, unless otherwise noted.

**§ 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.

(b) A source that complies with the limits and criteria specified in paragraphs (b)(1), (b)(2), or (b)(3) of this section is an area source for the purposes of this subpart and is not subject to any other provision of this rule, provided that: In the case of paragraphs (b)(1) and (b)(2), finishing materials, adhesives, cleaning solvents and washoff solvents used for wood furniture or wood furniture component manufacturing operations account for at least 90 percent of annual HAP emissions at the plant site, and if the plant site has HAP emissions that do not originate from the listed materials, the owner or operator shall keep any records necessary to demonstrate that the 90 percent criterion is being met. A source that initially relies on the limits and criteria specified in paragraphs (b)(1), (b)(2), and (b)(3) to become an area source, but subsequently exceeds the relevant limit (without first obtaining and complying with other limits that keep its potential to emit hazardous air pollutants below major source levels), becomes a major source and must comply thereafter with all applicable provisions of this subpart starting on the applicable compliance date in §63.800. Nothing in this paragraph (b) is intended to preclude a source from limiting its potential to emit through other appropriate mechanisms that may be available through the permitting authority.

(1) The owner or operator of the source uses no more than 250 gallons per month, for every month, of coating, gluing, cleaning, and washoff materials at the source, including materials used for source categories other than wood furniture (surface coating), but excluding materials used in routine janitorial or facility grounds maintenance, personal uses by employees or other persons, the use of products for the purpose of maintaining motor vehicles operated by the facility, or the use of toxic chemicals contained in intake water (used for processing or noncontact cooling) or intake air (used either as compressed air or for combustion). The owner or operator shall maintain records of the total gallons of coating, gluing, cleaning, and washoff materials used each month, and upon request submit such records to the Administrator. These records shall be maintained for five years.

(2) The owner or operator of the source uses no more than 3,000 gallons per rolling 12-month period, for every 12-month period, of coating, gluing, cleaning, and washoff materials at the source, including materials used for source categories other than wood furniture (surface coating), but excluding materials used in routine janitorial or facility grounds maintenance, personal uses by employees or other persons, the use of products for the purpose of maintaining motor vehicles operated by the facility, or the use of toxic chemicals contained in intake water (used for processing or noncontact cooling) or intake air (used either as compressed air or for combustion). A rolling 12-month period includes the previous 12 months of operation. The owner or operator of the source shall maintain records of the total gallons of coating, gluing, cleaning, and washoff materials used each month and the total gallons used each previous month, and upon request submit such records to the Administrator. Because

records are needed over the previous set of 12 months, the owner or operator shall keep monthly records beginning no less than one year before the compliance date specified in §63.800(e). Records shall be maintained for five years.

(3) The source emits no more than 4.5 Mg (5 tons) of any one HAP per rolling 12-month period and no more than 11.4 Mg (12.5 tons) of any combination of HAP per rolling 12-month period, and at least 90 percent of the plantwide emissions per rolling 12-month period are associated with the manufacture of wood furniture or wood furniture components.

(c) This subpart does not apply to research or laboratory facilities as defined in §63.801.

(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.

(f) New affected sources must comply with the provisions of this standard immediately upon startup or by December 7, 1995, whichever is later. New area sources that become major sources shall comply with the provisions of this standard immediately upon becoming a major source.

(g) Reconstructed affected sources are subject to the requirements for new affected sources. The costs associated with the purchase and installation of air pollution control equipment (e.g., incinerators, carbon adsorbers, etc.) are not considered in determining whether the facility has been reconstructed, unless the control equipment is required as part of the process (e.g., product recovery). Additionally, the costs of retrofitting and replacement of equipment that is installed specifically to comply with this subpart are not considered reconstruction costs. For example, an affected source may convert to waterborne coatings to meet the requirements of this subpart. At most facilities, this conversion will require the replacement of existing storage tanks, mix equipment, and transfer lines. The cost of replacing the equipment is not considered in determining whether the facility has been reconstructed.

[60 FR 62936, Dec. 7, 1995, as amended at 62 FR 30259, June 3, 1997]

### **§ 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.

*Strippable 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.

(3) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids (0.8 lb VOC/lb solids), as applied.

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

(1) Limit VHAP emissions from finishing operations by meeting the emission limitations for new sources presented in Table 3 of this subpart using any of the compliance methods in §63.804(d). 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, excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates, of no greater than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied, using either of the compliance methods in §63.804(e).

(3) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids (0.8 lb VOC/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.

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

(d) The owner or operator of a new affected source subject to §63.802(b)(1) may comply with those provisions by using any of the following methods:

(1) Calculate the average VHAP content across all finishing materials used at the facility using Equation 1, and maintain a value of E no greater than 0.8;

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

(i) Demonstrate that each sealer and topcoat has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, each stain 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;

(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 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight; and

(iii) Demonstrate that each washcoat, basecoat, and enamel that is formulated onsite is formulated using a finishing material containing no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids) and a thinner containing no more than 3.0 percent HAP by weight.

(3) Use a control system with an overall control efficiency (R) such that the value of  $E_{ac}$  in Equation 4 is no greater than 0.8.

$$R = [(E_{bc} - E_{ac}) / E_{bc}] (100) \quad \text{Equation 4}$$

The value of  $E_{bc}$  in Equation 4 shall be calculated using Equation 1; or

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

(e) The owner or operator of a new affected source subject to §63.802(b)(2) shall comply with the provisions using either of the following methods:

(1) Use compliant contact adhesives with a VHAP content no greater than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied; or

(2) Use a control system with an overall control efficiency (R) such that the value of  $G_{ac}$  in Equation 3 is no greater than 0.2.

(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×N)(100) yields a value (R) such that the value of E<sub>ac</sub> 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×N)(100) yields a value (R) such that the value of E<sub>ac</sub> 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×N)(100) yields a value (R) such that the value of G<sub>ac</sub> 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×N)(100) yields a value (R) such that the value of G<sub>ac</sub> 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.

**§§ 63.809-63.819 [Reserved]**

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

| <b>Reference</b> | <b>Applies to subpart JJ</b> | <b>Comment</b>   |
|------------------|------------------------------|--|
| 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)–<br>(i)(3)  | Yes |  |
| 63.6(i)(4)(i)           | Yes |  |
| 63.6(i)(4)(ii)          | No  |  |
| 63.6 (i)(5)–<br>(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 |
| Dimethylcarbonyl 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-Toluenediamine                         | 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>-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         |
|---|--------------------|--------------------|
| <b>Finishing Operations:</b>  |                    |                    |
| (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                |
| <b>Cleaning Operations:</b>   |                    |                    |
| Strippable spray booth material (maximum VOC content, kg VOC/kg solids [lb VOC/lb solids])                                  | 0.8                | 0.8                |
| <b>Contact Adhesives:</b>   |                    |                    |
| (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**

**Attachment B  
to a  
Part 70 Operating Permit**

**Source Background and Description**

|                       |   |
|-----------------------|---|
| Source Name:          | MasterBrand Cabinets, Inc. - Ferdinand Operations |
| Source Location:      | 614 West Third Street, Ferdinand, Indiana 47532   |
| County:               | Dubois  |
| SIC Code:             | 2434  |
| Operation Permit No.: | T037-26606-00051                                  |
| Permit Reviewer:      | APT   |

**Subpart DDDD—National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products**

**What This Subpart Covers**

**Source:** 69 FR 46011, July 30, 2004, unless otherwise noted.

**§ 63.2230 What is the purpose of this subpart?**

This subpart establishes national compliance options, operating requirements, and work practice requirements for hazardous air pollutants (HAP) emitted from plywood and composite wood products (PCWP) manufacturing facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with the compliance options, operating requirements, and work practice requirements.

**§ 63.2231 Does this subpart apply to me?**

This subpart applies to you if you meet the criteria in paragraphs (a) and (b) of this section.

(a) You own or operate a PCWP manufacturing facility. A PCWP manufacturing facility is a facility that manufactures plywood and/or composite wood products by bonding wood material (fibers, particles, strands, veneers, etc.) or agricultural fiber, generally with resin under heat and pressure, to form a structural panel or engineered wood product. Plywood and composite wood products manufacturing facilities also include facilities that manufacture dry veneer and lumber kilns located at any facility. Plywood and composite wood products include, but are not limited to, plywood, veneer, particleboard, oriented strandboard, hardboard, fiberboard, medium density fiberboard, laminated strand lumber, laminated veneer lumber, wood I-joists, kiln-dried lumber, and glue-laminated beams.

(b) The PCWP manufacturing facility is located at a major source of HAP emissions. A major source of HAP emissions is any stationary source or group of stationary sources within a contiguous area and under common control that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (10 tons) or more per year or any combination of HAP at a rate of 22.68 megagrams (25 tons) or more per year.

[69 FR 46011, July 30, 2004, as amended at 72 FR 61062, Oct. 29, 2007]

**§ 63.2232 What parts of my plant does this subpart cover?**

(a) This subpart applies to each new, reconstructed, or existing affected source at a PCWP manufacturing facility.

(b) The affected source is the collection of dryers, refiners, blenders, formers, presses, board coolers, and other process units associated with the manufacturing of plywood and composite wood products. The affected source includes, but is not limited to, green end operations, refining, drying operations (including any combustion unit exhaust stream routinely used to direct fire process unit(s)), resin preparation, blending and forming operations, pressing and board cooling operations, and miscellaneous finishing operations (such as sanding, sawing, patching, edge sealing, and other finishing operations not subject to other national emission standards for hazardous air pollutants (NESHAP)). The affected source also includes onsite storage and preparation of raw materials used in the manufacture of plywood and/or composite wood products, such as resins; onsite wastewater treatment operations specifically associated with plywood and composite wood products manufacturing; and miscellaneous coating operations (§63.2292). The affected source includes lumber kilns at PCWP manufacturing facilities and at any other kind of facility.

(c) An affected source is a new affected source if you commenced construction of the affected source after January 9, 2003, and you meet the applicability criteria at the time you commenced construction.

(d) An affected source is reconstructed if you meet the criteria as defined in §63.2.

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

[69 FR 46011, July 30, 2004, as amended at 71 FR 8371, Feb. 16, 2006]

### **§ 63.2233 When do I have to comply with this subpart?**

(a) If you have a new or reconstructed affected source, you must comply with this subpart according to paragraph (a)(1) or (2) of this section, whichever is applicable.

(1) If the initial startup of your affected source is before September 28, 2004, then you must comply with the compliance options, operating requirements, and work practice requirements for new and reconstructed sources in this subpart no later than September 28, 2004.

(2) If the initial startup of your affected source is after September 28, 2004, then you must comply with the compliance options, operating requirements, and work practice requirements for new and reconstructed sources in this subpart upon initial startup of your affected source.

(b) If you have an existing affected source, you must comply with the compliance options, operating requirements, and work practice requirements for existing sources no later than October 1, 2007.

(c) If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, you must be in compliance with this subpart by October 1, 2007 or upon initial startup of your affected source as a major source, whichever is later.

(d) You must meet the notification requirements according to the schedule in §63.2280 and according to 40 CFR part 63, subpart A. Some of the notifications must be submitted before you are required to comply with the compliance options, operating requirements, and work practice requirements in this subpart.

[69 FR 46011, July 30, 2004, as amended at 71 FR 8372, Feb. 16, 2006; 72 FR 61062, Oct. 29, 2007]

### **Compliance Options, Operating Requirements, and Work Practice Requirements**

#### **§ 63.2240 What are the compliance options and operating requirements and how must I meet them?**

You must meet the compliance options and operating requirements described in Tables 1A, 1B, and 2 to this subpart and in paragraph (c) of this section by using one or more of the compliance options listed in paragraphs (a), (b), and (c) of this section. The process units subject to the compliance options are listed in Tables 1A and 1B to this subpart and are defined in §63.2292. You need only to meet one of the compliance options outlined in paragraphs (a) through (c) of this section for each process unit. You cannot combine compliance options in paragraph (a), (b), or (c) for a single process unit. (For example, you cannot use a production-based compliance option in paragraph (a) for one vent of a veneer dryer and an add-on control system compliance

option in paragraph (b) for another vent on the same veneer dryer. You must use either the production-based compliance option or an add-on control system compliance option for the entire dryer.)

(a) *Production-based compliance options.* You must meet the production-based total HAP compliance options in Table 1A to this subpart and the applicable operating requirements in Table 2 to this subpart. You may not use an add-on control system or wet control device to meet the production-based compliance options.

(b) *Compliance options for add-on control systems.* You must use an emissions control system and demonstrate that the resulting emissions meet the compliance options and operating requirements in Tables 1B and 2 to this subpart. If you own or operate a reconstituted wood product press at a new or existing affected source or a reconstituted wood product board cooler at a new affected source, and you choose to comply with one of the concentration-based compliance options for a control system outlet (presented as option numbers 2, 4, and 6 in Table 1B to this subpart), you must have a capture device that either meets the definition of wood products enclosure in §63.2292 or achieves a capture efficiency of greater than or equal to 95 percent.

(c) *Emissions averaging compliance option (for existing sources only).* Using the procedures in paragraphs (c)(1) through (3) of this section, you must demonstrate that emissions included in the emissions average meet the compliance options and operating requirements. New sources may not use emissions averaging to comply with this subpart.

(1) *Calculation of required and actual mass removal.* Limit emissions of total HAP, as defined in §63.2292, to include acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde from your affected source to the standard specified by Equations 1, 2, and 3 of this section.

$$RMR = 0.90 \times \left( \sum_{i=1}^n UCEP_i \times OH_i \right) \quad (Eq. 1)$$

$$AMR = \left( \sum_{i=1}^n CD_i \times OCEP_i \times OH_i \right) \quad (Eq. 2)$$

$$AMR \geq RMR \quad (Eq. 3)$$

Where:

RMR = required mass removal of total HAP from all process units generating debits ( *i.e.*, all process units that are subject to the compliance options in Tables 1A and 1B to this subpart and that are either uncontrolled or under-controlled), pounds per semiannual period;

AMR = actual mass removal of total HAP from all process units generating credits ( *i.e.*, all process units that are controlled as part of the Emissions Averaging Plan including credits from debit-generating process units that are under-controlled), pounds per semiannual period;

UCEP<sub>i</sub> = mass of total HAP from an uncontrolled or under-controlled process unit (i) that generates debits, pounds per hour;

OH<sub>i</sub> = number of hours a process unit (i) is operated during the semiannual period, hours per 6-month period;

CD<sub>i</sub> = control system efficiency for the emission point (i) for total HAP, expressed as a fraction, and not to exceed 90 percent, unitless (Note: To calculate the control system efficiency of biological treatment units that do not meet the definition of biofilter in §63.2292, you must use 40 CFR part 63, appendix C, Determination of the Fraction Biodegraded (F<sub>bio</sub>) in a Biological Treatment Unit.);

OCEP<sub>i</sub> = mass of total HAP from a process unit (i) that generates credits (including credits from debit-generating process units that are under-controlled), pounds per hour;

0.90 = required control system efficiency of 90 percent multiplied, unitless.

(2) *Requirements for debits and credits.* You must calculate debits and credits as specified in paragraphs (c)(2)(i) through (vi) of this section.

(i) You must limit process units in the emissions average to those process units located at the existing affected source as defined in §63.2292.

(ii) You cannot use nonoperating process units to generate emissions averaging credits. You cannot use process units that are shut down to generate emissions averaging debits or credits.

(iii) You may not include in your emissions average process units controlled to comply with a State, Tribal, or Federal rule other than this subpart.

(iv) You must use actual measurements of total HAP emissions from process units to calculate your required mass removal (RMR) and actual mass removal (AMR). The total HAP measurements must be obtained according to §63.2262(b) through (d), (g), and (h), using the methods specified in Table 4 to this subpart.

(v) Your initial demonstration that the credit-generating process units will be capable of generating enough credits to offset the debits from the debit-generating process units must be made under representative operating conditions. After the compliance date, you must use actual operating data for all debit and credit calculations.

(vi) Do not include emissions from the following time periods in your emissions averaging calculations:

(A) Emissions during periods of startup, shutdown, and malfunction as described in the startup, shutdown, and malfunction plan (SSMP).

(B) Emissions during periods of monitoring malfunctions, associated repairs, and required quality assurance or control activities or during periods of control device maintenance covered in your routine control device maintenance exemption. No credits may be assigned to credit-generating process units, and maximum debits must be assigned to debit-generating process units during these periods.

(3) *Operating requirements.* You must meet the operating requirements in Table 2 to this subpart for each process unit or control device used in calculation of emissions averaging credits.

### **§ 63.2241 What are the work practice requirements and how must I meet them?**

(a) You must meet each work practice requirement in Table 3 to this subpart that applies to you.

(b) As provided in §63.6(g), we, the EPA, may choose to grant you permission to use an alternative to the work practice requirements in this section.

(c) If you have a dry rotary dryer, you may choose to designate your dry rotary dryer as a green rotary dryer and meet the more stringent compliance options and operating requirements in §63.2240 for green rotary dryers instead of the work practices for dry rotary dryers. If you have a hardwood veneer dryer or veneer redryer, you may choose to designate your hardwood veneer dryer or veneer redryer as a softwood veneer dryer and meet the more stringent compliance options and operating requirements in §63.2240 for softwood veneer dryer heated zones instead of the work practices for hardwood veneer dryers or veneer redryers.

## **General Compliance Requirements**

### **§ 63.2250 What are the general requirements?**

(a) You must be in compliance with the compliance options, operating requirements, and the work practice requirements in this subpart at all times, except during periods of process unit or control device startup, shutdown, and malfunction; prior to process unit initial startup; and during the routine control device maintenance exemption specified in §63.2251. The compliance options,

operating requirements, and work practice requirements do not apply during times when the process unit(s) subject to the compliance options, operating requirements, and work practice requirements are not operating, or during periods of startup, shutdown, and malfunction. Startup and shutdown periods must not exceed the minimum amount of time necessary for these events.

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

(c) You must develop a written SSMP according to the provisions in §63.6(e)(3).

(d) Shutoff of direct-fired burners resulting from partial and full production stoppages of direct-fired softwood veneer dryers or over-temperature events shall be deemed shutdowns and not malfunctions. Lighting or re-lighting any one or all gas burners in direct-fired softwood veneer dryers shall be deemed startups and not malfunctions.

[69 FR 46011, July 30, 2004, as amended at 71 FR 8372, Feb. 16, 2006; 71 FR 20463, Apr. 20, 2006]

### **§ 63.2251 What are the requirements for the routine control device maintenance exemption?**

(a) You may request a routine control device maintenance exemption from the EPA Administrator for routine maintenance events such as control device bakeouts, washouts, media replacement, and replacement of corroded parts. Your request must justify the need for the routine maintenance on the control device and the time required to accomplish the maintenance activities, describe the maintenance activities and the frequency of the maintenance activities, explain why the maintenance cannot be accomplished during process shutdowns, describe how you plan to make reasonable efforts to minimize emissions during the maintenance, and provide any other documentation required by the EPA Administrator.

(b) The routine control device maintenance exemption must not exceed the percentages of process unit operating uptime in paragraphs (b)(1) and (2) of this section.

(1) If the control device is used to control a green rotary dryer, tube dryer, rotary strand dryer, or pressurized refiner, then the routine control device maintenance exemption must not exceed 3 percent of annual operating uptime for each process unit controlled.

(2) If the control device is used to control a softwood veneer dryer, reconstituted wood product press, reconstituted wood product board cooler, hardboard oven, press predryer, conveyor strand dryer, or fiberboard mat dryer, then the routine control device maintenance exemption must not exceed 0.5 percent of annual operating uptime for each process unit controlled.

(3) If the control device is used to control a combination of equipment listed in both paragraphs (b)(1) and (2) of this section, such as a tube dryer and a reconstituted wood product press, then the routine control device maintenance exemption must not exceed 3 percent of annual operating uptime for each process unit controlled.

(c) The request for the routine control device maintenance exemption, if approved by the EPA Administrator, must be IBR in and attached to the affected source's title V permit.

(d) The compliance options and operating requirements do not apply during times when control device maintenance covered under your approved routine control device maintenance exemption is performed. You must minimize emissions to the greatest extent possible during these routine control device maintenance periods.

(e) To the extent practical, startup and shutdown of emission control systems must be scheduled during times when process equipment is also shut down.

### **§ 63.2252 What are the requirements for process units that have no control or work practice requirements?**

For process units not subject to the compliance options or work practice requirements specified in §63.2240 (including, but not limited to, lumber kilns), you are not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this subpart, or any other requirements in subpart A of this part, except for the initial notification requirements in §63.9(b).

[71 FR 8372, Feb. 16, 2006]

## Initial Compliance Requirements

### **§ 63.2260 How do I demonstrate initial compliance with the compliance options, operating requirements, and work practice requirements?**

- (a) To demonstrate initial compliance with the compliance options and operating requirements, you must conduct performance tests and establish each site-specific operating requirement in Table 2 to this subpart according to the requirements in §63.2262 and Table 4 to this subpart. Combustion units that accept process exhausts into the flame zone are exempt from the initial performance testing and operating requirements for thermal oxidizers.
- (b) You must demonstrate initial compliance with each compliance option, operating requirement, and work practice requirement that applies to you according to Tables 5 and 6 to this subpart and according to §§63.2260 through 63.2269 of this subpart.
- (c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.2280(d).

### **§ 63.2261 By what date must I conduct performance tests or other initial compliance demonstrations?**

- (a) You must conduct performance tests upon initial startup or no later than 180 calendar days after the compliance date that is specified for your source in §63.2233 and according to §63.7(a)(2), whichever is later.
- (b) You must conduct initial compliance demonstrations that do not require performance tests upon initial startup or no later than 30 calendar days after the compliance date that is specified for your source in §63.2233, whichever is later.

### **§ 63.2262 How do I conduct performance tests and establish operating requirements?**

- (a) You must conduct each performance test according to the requirements in §63.7(e)(1), the requirements in paragraphs (b) through (o) of this section, and according to the methods specified in Table 4 to this subpart.
- (b) *Periods when performance tests must be conducted.* (1) You must not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §63.7(e)(1).
- (2) You must test under representative operating conditions as defined in §63.2292. You must describe representative operating conditions in your performance test report for the process and control systems and explain why they are representative.
- (c) *Number of test runs.* You must conduct three separate test runs for each performance test required in this section as specified in §63.7(e)(3). Each test run must last at least 1 hour except for: testing of a temporary total enclosure (TTE) conducted using Methods 204A through 204F of 40 CFR part 51, appendix M, which require three separate test runs of at least 3 hours each; and testing of an enclosure conducted using the alternative tracer gas method in appendix A to this subpart, which requires a minimum of three separate runs of at least 20 minutes each.
- (d) *Location of sampling sites.* (1) Sampling sites must be located at the inlet (if emission reduction testing or documentation of inlet methanol or formaldehyde concentration is required) and outlet of the control device (defined in §63.2292) and prior to any releases to the atmosphere. For control sequences with wet control devices (defined in §63.2292) followed by control devices (defined in §63.2292), sampling sites may be located at the inlet and outlet of the control sequence and prior to any releases to the atmosphere.
- (2) Sampling sites for process units meeting compliance options without a control device must be located prior to any releases to the atmosphere. Facilities demonstrating compliance with a production-based compliance option for a process unit equipped with a wet control device must locate sampling sites prior to the wet control device.
- (e) *Collection of monitoring data.* You must collect operating parameter monitoring system or continuous emissions monitoring system (CEMS) data at least every 15 minutes during the entire performance test and determine the parameter or concentration

value for the operating requirement during the performance test using the methods specified in paragraphs (k) through (o) of this section.

(f) *Collection of production data.* To comply with any of the production-based compliance options, you must measure and record the process unit throughput during each performance test.

(g) *Nondetect data.* (1) Except as specified in paragraph (g)(2) of this section, all nondetect data (§63.2292) must be treated as one-half of the method detection limit when determining total HAP, formaldehyde, methanol, or total hydrocarbon (THC) emission rates.

(2) When showing compliance with the production-based compliance options in Table 1A to this subpart, you may treat emissions of an individual HAP as zero if all three of the performance test runs result in a nondetect measurement, and the method detection limit is less than or equal to 1 parts per million by volume, dry basis (ppmvd). Otherwise, nondetect data for individual HAP must be treated as one-half of the method detection limit.

(h) *Calculation of percent reduction across a control system.* When determining the control system efficiency for any control system included in your emissions averaging plan (not to exceed 90 percent) and when complying with any of the compliance options based on percent reduction across a control system in Table 1B to this subpart, as part of the performance test, you must calculate the percent reduction using Equation 1 of this section:

$$PR = CE \times \frac{ER_{in} - ER_{out}}{ER_{in}} (100) \quad (Eq. 1)$$

Where:

PR = percent reduction, percent;

CE = capture efficiency, percent (determined for reconstituted wood product presses and board coolers as required in Table 4 to this subpart);

$ER_{in}$  = emission rate of total HAP (calculated as the sum of the emission rates of acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde), THC, formaldehyde, or methanol in the inlet vent stream of the control device, pounds per hour;

$ER_{out}$  = emission rate of total HAP (calculated as the sum of the emission rates of acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde), THC, formaldehyde, or methanol in the outlet vent stream of the control device, pounds per hour.

(i) *Calculation of mass per unit production.* To comply with any of the production-based compliance options in Table 1A to this subpart, you must calculate your mass per unit production emissions for each performance test run using Equation 2 of this section:

$$MP = \frac{ER_{HAP}}{P \times CE} \quad (Eq. 2)$$

Where:

MP = mass per unit production, pounds per oven dried ton OR pounds per thousand square feet on a specified thickness basis (see paragraph (j) of this section if you need to convert from one thickness basis to another);

$ER_{HAP}$  = emission rate of total HAP (calculated as the sum of the emission rates of acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde) in the stack, pounds per hour;

P = process unit production rate (throughput), oven dried tons per hour OR thousand square feet per hour on a specified thickness basis;

CE = capture efficiency, percent (determined for reconstituted wood product presses and board coolers as required in Table 4 to this subpart).

(j) *Thickness basis conversion.* Use Equation 3 of this section to convert from one thickness basis to another:

$$MSF_B = MSF_A \times \frac{A}{B} \quad (Eq. 3)$$

Where:

$MSF_A$  = thousand square feet on an A-inch basis;

$MSF_B$  = thousand square feet on a B-inch basis;

A = old thickness you are converting from, inches;

B = new thickness you are converting to, inches.

(k) *Establishing thermal oxidizer operating requirements.* If you operate a thermal oxidizer, you must establish your thermal oxidizer operating parameters according to paragraphs (k)(1) through (3) of this section.

(1) During the performance test, you must continuously monitor the firebox temperature during each of the required 1-hour test runs. For regenerative thermal oxidizers, you may measure the temperature in multiple locations ( e.g. , one location per burner) in the combustion chamber and calculate the average of the temperature measurements prior to reducing the temperature data to 15-minute averages for purposes of establishing your minimum firebox temperature. The minimum firebox temperature must then be established as the average of the three minimum 15-minute firebox temperatures monitored during the three test runs. Multiple three-run performance tests may be conducted to establish a range of parameter values under different operating conditions.

(2) You may establish a different minimum firebox temperature for your thermal oxidizer by submitting the notification specified in §63.2280(g) and conducting a repeat performance test as specified in paragraph (k)(1) of this section that demonstrates compliance with the applicable compliance options of this subpart.

(3) If your thermal oxidizer is a combustion unit that accepts process exhaust into the flame zone, then you are exempt from the performance testing and monitoring requirements specified in paragraphs (k)(1) and (2) of this section. To demonstrate initial compliance, you must submit documentation with your Notification of Compliance Status showing that process exhausts controlled by the combustion unit enter into the flame zone.

(l) *Establishing catalytic oxidizer operating requirements.* If you operate a catalytic oxidizer, you must establish your catalytic oxidizer operating parameters according to paragraphs (l)(1) and (2) of this section.

(1) During the performance test, you must continuously monitor during the required 1-hour test runs either the temperature at the inlet to each catalyst bed or the temperature in the combustion chamber. For regenerative catalytic oxidizers, you must calculate the average of the temperature measurements from each catalyst bed inlet or within the combustion chamber prior to reducing the temperature data to 15-minute averages for purposes of establishing your minimum catalytic oxidizer temperature. The minimum catalytic oxidizer temperature must then be established as the average of the three minimum 15-minute temperatures monitored during the three test runs. Multiple three-run performance tests may be conducted to establish a range of parameter values under different operating conditions.

(2) You may establish a different minimum catalytic oxidizer temperature by submitting the notification specified in §63.2280(g) and conducting a repeat performance test as specified in paragraphs (l)(1) and (2) of this section that demonstrates compliance with the applicable compliance options of this subpart.

(m) *Establishing biofilter operating requirements.* If you operate a biofilter, you must establish your biofilter operating requirements according to paragraphs (m)(1) through (3) of this section.

(1) During the performance test, you must continuously monitor the biofilter bed temperature during each of the required 1-hour test runs. To monitor biofilter bed temperature, you may use multiple thermocouples in representative locations throughout the biofilter bed and calculate the average biofilter bed temperature across these thermocouples prior to reducing the temperature data to 15-minute averages for purposes of establishing biofilter bed temperature limits. The biofilter bed temperature range must be established as the minimum and maximum 15-minute biofilter bed temperatures monitored during the three test runs. You may base your biofilter bed temperature range on values recorded during previous performance tests provided that the data used to establish the temperature ranges have been obtained using the test methods required in this subpart. If you use data from previous performance tests, you must certify that the biofilter and associated process unit(s) have not been modified subsequent to the date of the performance tests. Replacement of the biofilter media with the same type of material is not considered a modification of the biofilter for purposes of this section.

(2) For a new biofilter installation, you will be allowed up to 180 days following the compliance date or 180 days following initial startup of the biofilter to complete the requirements in paragraph (m)(1) of this section.

(3) You may expand your biofilter bed temperature operating range by submitting the notification specified in §63.2280(g) and conducting a repeat performance test as specified in paragraph (m)(1) of this section that demonstrates compliance with the applicable compliance options of this subpart.

(n) *Establishing operating requirements for process units meeting compliance options without a control device.* If you operate a process unit that meets a compliance option in Table 1A to this subpart, or is a process unit that generates debits in an emissions average without the use of a control device, you must establish your process unit operating parameters according to paragraphs (n)(1) through (2) of this section.

(1) During the performance test, you must identify and document the process unit controlling parameter(s) that affect total HAP emissions during the three-run performance test. The controlling parameters you identify must coincide with the representative operating conditions you describe according to §63.2262(b)(2). For each parameter, you must specify appropriate monitoring methods, monitoring frequencies, and for continuously monitored parameters, averaging times not to exceed 24 hours. The operating limit for each controlling parameter must then be established as the minimum, maximum, range, or average (as appropriate depending on the parameter) recorded during the performance test. Multiple three-run performance tests may be conducted to establish a range of parameter values under different operating conditions.

(2) You may establish different controlling parameter limits for your process unit by submitting the notification specified in §63.2280(g) and conducting a repeat performance test as specified in paragraph (n)(1) of this section that demonstrates compliance with the compliance options in Table 1A to this subpart or is used to establish emission averaging debits for an uncontrolled process unit.

(o) *Establishing operating requirements using THC CEMS.* If you choose to meet the operating requirements by monitoring THC concentration instead of monitoring control device or process operating parameters, you must establish your THC concentration operating requirement according to paragraphs (o)(1) through (2) of this section.

(1) During the performance test, you must continuously monitor THC concentration using your CEMS during each of the required 1-hour test runs. The maximum THC concentration must then be established as the average of the three maximum 15-minute THC concentrations monitored during the three test runs. Multiple three-run performance tests may be conducted to establish a range of THC concentration values under different operating conditions.

(2) You may establish a different maximum THC concentration by submitting the notification specified in §63.2280(g) and conducting a repeat performance test as specified in paragraph (o)(1) of this section that demonstrates compliance with the compliance options in Tables 1A and 1B to this subpart.

[69 FR 46011, July 30, 2004, as amended at 71 FR 8372, Feb. 16, 2006]

**§ 63.2263 Initial compliance demonstration for a dry rotary dryer.**

If you operate a dry rotary dryer, you must demonstrate that your dryer processes furnish with an inlet moisture content of less than or equal to 30 percent (by weight, dry basis) and operates with a dryer inlet temperature of less than or equal to 600 °F. You must designate and clearly identify each dry rotary dryer. You must record the inlet furnish moisture content (dry basis) and inlet dryer operating temperature according to §63.2269(a), (b), and (c) and §63.2270 for a minimum of 30 calendar days. You must submit the highest recorded 24-hour average inlet furnish moisture content and the highest recorded 24-hour average dryer inlet temperature with your Notification of Compliance Status. In addition, you must submit with the Notification of Compliance Status a signed statement by a responsible official that certifies with truth, accuracy, and completeness that the dry rotary dryer will dry furnish with a maximum inlet moisture content less than or equal to 30 percent (by weight, dry basis) and will operate with a maximum inlet temperature of less than or equal to 600 °F in the future.

**§ 63.2264 Initial compliance demonstration for a hardwood veneer dryer.**

If you operate a hardwood veneer dryer, you must record the annual volume percentage of softwood veneer species processed in the dryer as follows:

(a) Use Equation 1 of this section to calculate the annual volume percentage of softwood species dried:

$$SW_{\%} = \frac{SW}{T} (100) \quad (Eq. 1)$$

Where:

SW%= annual volume percent softwood species dried;

SW = softwood veneer dried during the previous 12 months, thousand square feet (3/8-inch basis);

T = total softwood and hardwood veneer dried during the previous 12 months, thousand square feet (3/8-inch basis).

(b) You must designate and clearly identify each hardwood veneer dryer. Submit with the Notification of Compliance Status the annual volume percentage of softwood species dried in the dryer based on your dryer production for the 12 months prior to the compliance date specified for your source in §63.2233. If you did not dry any softwood species in the dryer during the 12 months prior to the compliance date, then you need only to submit a statement indicating that no softwood species were dried. In addition, submit with the Notification of Compliance Status a signed statement by a responsible official that certifies with truth, accuracy, and completeness that the veneer dryer will be used to process less than 30 volume percent softwood species in the future.

**§ 63.2265 Initial compliance demonstration for a softwood veneer dryer.**

If you operate a softwood veneer dryer, you must develop a plan for review and approval for minimizing fugitive emissions from the veneer dryer heated zones, and you must submit the plan with your Notification of Compliance Status.

**§ 63.2266 Initial compliance demonstration for a veneer redryer.**

If you operate a veneer redryer, you must record the inlet moisture content of the veneer processed in the redryer according to §63.2269(a) and (c) and §63.2270 for a minimum of 30 calendar days. You must designate and clearly identify each veneer redryer. You must submit the highest recorded 24-hour average inlet veneer moisture content with your Notification of Compliance Status to show that your veneer redryer processes veneer with an inlet moisture content of less than or equal to 25 percent (by weight, dry basis). In addition, submit with the Notification of Compliance Status a signed statement by a responsible official that certifies with truth, accuracy, and completeness that the veneer redryer will dry veneer with a moisture content less than 25 percent (by weight, dry basis) in the future.

**§ 63.2267 Initial compliance demonstration for a reconstituted wood product press or board cooler.**

If you operate a reconstituted wood product press at a new or existing affected source or a reconstituted wood product board cooler at a new affected source, then you must either use a wood products enclosure as defined in §63.2292 or measure the

capture efficiency of the capture device for the press or board cooler using Methods 204 and 204A through 204F of 40 CFR part 51, appendix M (as appropriate), or using the alternative tracer gas method contained in appendix A to this subpart. You must submit documentation that the wood products enclosure meets the press enclosure design criteria in §63.2292 or the results of the capture efficiency verification with your Notification of Compliance Status.

### **§ 63.2268 Initial compliance demonstration for a wet control device.**

If you use a wet control device as the sole means of reducing HAP emissions, you must develop and implement a plan for review and approval to address how organic HAP captured in the wastewater from the wet control device is contained or destroyed to minimize re-release to the atmosphere such that the desired emissions reductions are obtained. You must submit the plan with your Notification of Compliance Status.

### **§ 63.2269 What are my monitoring installation, operation, and maintenance requirements?**

(a) *General continuous parameter monitoring requirements.* You must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to paragraphs (a)(1) through (3) of this section.

(1) The CPMS must be capable of completing a minimum of one cycle of operation (sampling, analyzing, and recording) for each successive 15-minute period.

(2) At all times, you must maintain the monitoring equipment including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(3) Record the results of each inspection, calibration, and validation check.

(b) *Temperature monitoring.* For each temperature monitoring device, you must meet the requirements in paragraphs (a) and (b)(1) through (6) of this section.

(1) Locate the temperature sensor in a position that provides a representative temperature.

(2) Use a temperature sensor with a minimum accuracy of 4 °F or 0.75 percent of the temperature value, whichever is larger.

(3) If a chart recorder is used, it must have a sensitivity with minor divisions not more than 20 °F.

(4) Perform an electronic calibration at least semiannually according to the procedures in the manufacturer's owners manual. Following the electronic calibration, you must conduct a temperature sensor validation check in which a second or redundant temperature sensor placed nearby the process temperature sensor must yield a reading within 30 °F of the process temperature sensor's reading.

(5) Conduct calibration and validation checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.

(6) At least quarterly, inspect all components for integrity and all electrical connections for continuity, oxidation, and galvanic corrosion.

(c) *Wood moisture monitoring.* For each furnish or veneer moisture meter, you must meet the requirements in paragraphs (a)(1) through (3) and paragraphs (c)(1) through (5) of this section.

(1) For dry rotary dryers, use a continuous moisture monitor with a minimum accuracy of 1 percent (dry basis) moisture or better in the 25 to 35 percent (dry basis) moisture content range. For veneer redryers, use a continuous moisture monitor with a minimum accuracy of 3 percent (dry basis) moisture or better in the 15 to 25 percent (dry basis) moisture content range. Alternatively, you may use a continuous moisture monitor with a minimum accuracy of 5 percent (dry basis) moisture or better for dry rotary dryers used to dry furnish with less than 25 percent (dry basis) moisture or for veneer redryers used to redry veneer with less than 20 percent (dry basis) moisture.

- (2) Locate the moisture monitor in a position that provides a representative measure of furnish or veneer moisture.
- (3) Calibrate the moisture monitor based on the procedures specified by the moisture monitor manufacturer at least once per semiannual compliance period (or more frequently if recommended by the moisture monitor manufacturer).
- (4) At least quarterly, inspect all components of the moisture monitor for integrity and all electrical connections for continuity.
- (5) Use Equation 1 of this section to convert percent moisture measurements wet basis to a dry basis:

$$MC_{dry} = \frac{MC_{wet}/100}{1 - (MC_{wet}/100)} (100) \quad (Eq. 1)$$

Where:

$MC_{dry}$  = percent moisture content of wood material (weight percent, dry basis);

$MC_{wet}$  = percent moisture content of wood material (weight percent, wet basis).

(d) *Continuous emission monitoring system(s)*. Each CEMS must be installed, operated, and maintained according to paragraphs (d)(1) through (4) of this section.

(1) Each CEMS for monitoring THC concentration must be installed, operated, and maintained according to Performance Specification 8 of 40 CFR part 60, appendix B. You must also comply with Procedure 1 of 40 CFR part 60, appendix F.

(2) You must conduct a performance evaluation of each CEMS according to the requirements in §63.8 and according to Performance Specification 8 of 40 CFR part 60, appendix B.

(3) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(4) The CEMS data must be reduced as specified in §63.8(g)(2) and §63.2270(d) and (e).

[69 FR 46011, July 30, 2004, as amended at 71 FR 8372, Feb. 16, 2006]

## Continuous Compliance Requirements

### § 63.2270 How do I monitor and collect data to demonstrate continuous compliance?

(a) You must monitor and collect data according to this section.

(b) Except for, as appropriate, monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation at all times that the process unit is operating. For purposes of calculating data averages, you must not use data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities. You must use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities; data recorded during periods of startup, shutdown, and malfunction; or data recorded during periods of control device downtime covered in any approved routine control device maintenance exemption in data averages and calculations used to report

emission or operating levels, nor may such data be used in fulfilling a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing the operation of the control system.

(d) Except as provided in paragraph (e) of this section, determine the 3-hour block average of all recorded readings, calculated after every 3 hours of operation as the average of the evenly spaced recorded readings in the previous 3 operating hours (excluding periods described in paragraphs (b) and (c) of this section).

(e) For dry rotary dryer and veneer redryer wood moisture monitoring, dry rotary dryer temperature monitoring, biofilter bed temperature monitoring, and biofilter outlet THC monitoring, determine the 24-hour block average of all recorded readings, calculated after every 24 hours of operation as the average of the evenly spaced recorded readings in the previous 24 operating hours (excluding periods described in paragraphs (b) and (c) of this section).

(f) To calculate the data averages for each 3-hour or 24-hour averaging period, you must have at least 75 percent of the required recorded readings for that period using only recorded readings that are based on valid data ( *i.e.* , not from periods described in paragraphs (b) and (c) of this section).

### **§ 63.2271 How do I demonstrate continuous compliance with the compliance options, operating requirements, and work practice requirements?**

(a) You must demonstrate continuous compliance with the compliance options, operating requirements, and work practice requirements in §§63.2240 and 63.2241 that apply to you according to the methods specified in Tables 7 and 8 to this subpart.

(b) You must report each instance in which you did not meet each compliance option, operating requirement, and work practice requirement in Tables 7 and 8 to this subpart that applies to you. This includes periods of startup, shutdown, and malfunction and periods of control device maintenance specified in paragraphs (b)(1) through (3) of this section. These instances are deviations from the compliance options, operating requirements, and work practice requirements in this subpart. These deviations must be reported according to the requirements in §63.2281.

(1) [Reserved]

(2) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with §63.6(e)(1). The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

(3) Deviations that occur during periods of control device maintenance covered by any approved routine control device maintenance exemption are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with the approved routine control device maintenance exemption.

[69 FR 46011, July 30, 2004, as amended at 71 FR 20463, Apr. 20, 2006]

## **Notifications, Reports, and Records**

### **§ 63.2280 What notifications must I submit and when?**

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), and (g) and (h) by the dates specified.

(b) You must submit an Initial Notification no later than 120 calendar days after September 28, 2004, or after initial startup, whichever is later, as specified in §63.9(b)(2).

(c) If you are required to conduct a performance test, you must submit a written notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as specified in §63.7(b)(1).

(d) If you are required to conduct a performance test, design evaluation, or other initial compliance demonstration as specified in Tables 4, 5, and 6 to this subpart, you must submit a Notification of Compliance Status as specified in §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 5 or 6 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Tables 5 and 6 to this subpart that includes a performance test conducted according to the requirements in Table 4 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

(e) If you request a routine control device maintenance exemption according to §63.2251, you must submit your request for the exemption no later than 30 days before the compliance date.

(f) If you use the emissions averaging compliance option in §63.2240(c), you must submit an Emissions Averaging Plan to the EPA Administrator for approval no later than 1 year before the compliance date or no later than 1 year before the date you would begin using an emissions average, whichever is later. The Emissions Averaging Plan must include the information in paragraphs (f)(1) through (6) of this section.

(1) Identification of all the process units to be included in the emissions average indicating which process units will be used to generate credits, and which process units that are subject to compliance options in Tables 1A and 1B to this subpart will be uncontrolled (used to generate debits) or under-controlled (used to generate debits and credits).

(2) Description of the control system used to generate emission credits for each process unit used to generate credits.

(3) Determination of the total HAP control efficiency for the control system used to generate emission credits for each credit-generating process unit.

(4) Calculation of the RMR and AMR, as calculated using Equations 1 through 3 of §63.2240(c)(1).

(5) Documentation of total HAP measurements made according to §63.2240(c)(2)(iv) and other relevant documentation to support calculation of the RMR and AMR.

(6) A summary of the operating parameters you will monitor and monitoring methods for each debit-generating and credit-generating process unit.

(g) You must notify the EPA Administrator within 30 days before you take any of the actions specified in paragraphs (g)(1) through (3) of this section.

(1) You modify or replace the control system for any process unit subject to the compliance options and operating requirements in this subpart.

(2) You shut down any process unit included in your Emissions Averaging Plan.

(3) You change a continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit or control device.

### **§ 63.2281 What reports must I submit and when?**

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 9 to this subpart and as specified in paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.2233 ending on June 30 or December 31, and lasting at least 6 months, but less than 12 months. For example, if your compliance date is March 1, then the first semiannual reporting period would begin on March 1 and end on December 31.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31 for compliance periods ending on June 30 and December 31, respectively.

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

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31 for the semiannual reporting period ending on June 30 and December 31, respectively.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information in paragraphs (c)(1) through (8) of this section.

(1) Company name and address.

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

(3) Date of report and beginning and ending dates of the reporting period.

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

(5) A description of control device maintenance performed while the control device was offline and one or more of the process units controlled by the control device was operating, including the information specified in paragraphs (c)(5)(i) through (iii) of this section.

(i) The date and time when the control device was shut down and restarted.

(ii) Identification of the process units that were operating and the number of hours that each process unit operated while the control device was offline.

(iii) A statement of whether or not the control device maintenance was included in your approved routine control device maintenance exemption developed pursuant to §63.2251. If the control device maintenance was included in your approved routine control device maintenance exemption, then you must report the information in paragraphs (c)(5)(iii)(A) through (C) of this section.

(A) The total amount of time that each process unit controlled by the control device operated during the semiannual compliance period and during the previous semiannual compliance period.

(B) The amount of time that each process unit controlled by the control device operated while the control device was down for maintenance covered under the routine control device maintenance exemption during the semiannual compliance period and during the previous semiannual compliance period.

(C) Based on the information recorded under paragraphs (c)(5)(iii)(A) and (B) of this section for each process unit, compute the annual percent of process unit operating uptime during which the control device was offline for routine maintenance using Equation 1 of this section.

$$RM = \frac{DT_p + DT_c}{PU_p + PU_c} \quad (Eq. 1)$$

Where:

RM = Annual percentage of process unit uptime during which control device is down for routine control device maintenance;

PU<sub>p</sub> = Process unit uptime for the previous semiannual compliance period;

PU<sub>c</sub> = Process unit uptime for the current semiannual compliance period;

DT<sub>p</sub> = Control device downtime claimed under the routine control device maintenance exemption for the previous semiannual compliance period;

DT<sub>c</sub> = Control device downtime claimed under the routine control device maintenance exemption for the current semiannual compliance period.

(6) The results of any performance tests conducted during the semiannual reporting period.

(7) If there are no deviations from any applicable compliance option or operating requirement, and there are no deviations from the requirements for work practice requirements in Table 8 to this subpart, a statement that there were no deviations from the compliance options, operating requirements, or work practice requirements during the reporting period.

(8) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from a compliance option or operating requirement and for each deviation from the work practice requirements in Table 8 to this subpart that occurs at an affected source where you are not using a CMS to comply with the compliance options, operating requirements, or work practice requirements in this subpart, the compliance report must contain the information in paragraphs (c)(1) through (6) of this section and in paragraphs (d)(1) and (2) of this section. This includes periods of startup, shutdown, and malfunction and routine control device maintenance.

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

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

(e) For each deviation from a compliance option or operating requirement occurring at an affected source where you are using a CMS to comply with the compliance options and operating requirements in this subpart, you must include the information in paragraphs (c)(1) through (6) and paragraphs (e)(1) through (11) of this section. This includes periods of startup, shutdown, and malfunction and routine control device maintenance.

(1) The date and time that each malfunction started and stopped.

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction; during a period of control device maintenance covered in your approved routine control device maintenance exemption; or during another period.

(5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control system problems, control device maintenance, process problems, other known causes, and other unknown causes.

- (7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.
- (8) A brief description of the process units.
- (9) A brief description of the CMS.
- (10) The date of the latest CMS certification or audit.
- (11) A description of any changes in CMS, processes, or controls since the last reporting period.
- (f) If you comply with the emissions averaging compliance option in §63.2240(c), you must include in your semiannual compliance report calculations based on operating data from the semiannual reporting period that demonstrate that actual mass removal equals or exceeds the required mass removal.
- (g) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 9 to this subpart along with, or as part of, the semiannual monitoring report required by §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any compliance option, operating requirement, or work practice requirement in this subpart, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

#### **§ 63.2282 What records must I keep?**

- (a) You must keep the records listed in paragraphs (a)(1) through (4) of this section.
- (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).
- (2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
- (3) Documentation of your approved routine control device maintenance exemption, if you request such an exemption under §63.2251.
- (4) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).
- (b) You must keep the records required in Tables 7 and 8 to this subpart to show continuous compliance with each compliance option, operating requirement, and work practice requirement that applies to you.
- (c) For each CEMS, you must keep the following records.
- (1) Records described in §63.10(b)(2)(vi) through (xi).
- (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3).
- (3) Request for alternatives to relative accuracy testing for CEMS as required in §63.8(f)(6)(i).
- (4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.
- (d) If you comply with the emissions averaging compliance option in §63.2240(c), you must keep records of all information required to calculate emission debits and credits.

(e) If you operate a catalytic oxidizer, you must keep records of annual catalyst activity checks and subsequent corrective actions.

### **§ 63.2283 In what form and how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for expeditious review as specified in §63.10(b)(1).

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

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

### **Other Requirements and Information**

### **§ 63.2290 What parts of the General Provisions apply to me?**

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.13 apply to you.

### **§ 63.2291 Who implements and enforces this subpart?**

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

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency.

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

(1) Approval of alternatives to the compliance options, operating requirements, and work practice requirements in §§63.2240 and 63.2241 as specified in §63.6(g). For the purposes of delegation authority under 40 CFR part 63, subpart E, "compliance options" represent "emission limits"; "operating requirements" represent "operating limits"; and "work practice requirements" represent "work practice standards."

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

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

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

[69 FR 46011, July 30, 2004, as amended at 72 FR 61063, Oct. 29, 2007]

### **§ 63.2292 What definitions apply to this subpart?**

Terms used in this subpart are defined in the Clean Air Act (CAA), in 40 CFR 63.2, the General Provisions, and in this section as follows:

*Affected source* means the collection of dryers, refiners, blenders, formers, presses, board coolers, and other process units associated with the manufacturing of plywood and composite wood products. The affected source includes, but is not limited to, green end operations, refining, drying operations (including any combustion unit exhaust stream routinely used to direct fire process unit(s)), resin preparation, blending and forming operations, pressing and board cooling operations, and miscellaneous

finishing operations (such as sanding, sawing, patching, edge sealing, and other finishing operations not subject to other NESHAP). The affected source also includes onsite storage of raw materials used in the manufacture of plywood and/or composite wood products, such as resins; onsite wastewater treatment operations specifically associated with plywood and composite wood products manufacturing; and miscellaneous coating operations (defined elsewhere in this section). The affected source includes lumber kilns at PCWP manufacturing facilities and at any other kind of facility.

*Agricultural fiber* means the fiber of an annual agricultural crop. Examples of agricultural fibers include, but are not limited to, wheat straw, rice straw, and bagasse.

*Biofilter* means an enclosed control system such as a tank or series of tanks with a fixed roof that contact emissions with a solid media (such as bark) and use microbiological activity to transform organic pollutants in a process exhaust stream to innocuous compounds such as carbon dioxide, water, and inorganic salts. Wastewater treatment systems such as aeration lagoons or activated sludge systems are not considered to be biofilters.

*Capture device* means a hood, enclosure, or other means of collecting emissions into a duct so that the emissions can be measured.

*Capture efficiency* means the fraction (expressed as a percentage) of the pollutants from an emission source that are collected by a capture device.

*Catalytic oxidizer* means a control system that combusts or oxidizes, in the presence of a catalyst, exhaust gas from a process unit. Catalytic oxidizers include regenerative catalytic oxidizers and thermal catalytic oxidizers.

*Combustion unit* means a dryer burner, process heater, or boiler. Combustion units may be used for combustion of organic HAP emissions.

*Control device* means any equipment that reduces the quantity of HAP emitted to the air. The device may destroy the HAP or secure the HAP for subsequent recovery. Control devices include, but are not limited to, thermal or catalytic oxidizers, combustion units that incinerate process exhausts, biofilters, and condensers.

*Control system or add-on control system* means the combination of capture and control devices used to reduce HAP emissions to the atmosphere.

*Conveyor strand dryer* means a conveyor dryer used to reduce the moisture of wood strands used in the manufacture of oriented strandboard, laminated strand lumber, or other wood strand-based products. A *conveyor strand dryer* is a process unit.

*Conveyor strand dryer zone* means each portion of a conveyor strand dryer with a separate heat exchange system and exhaust vent(s). Conveyor strand dryers contain multiple zones (e.g., three zones), which may be divided into multiple sections.

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

- (1) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any compliance option, operating requirement, or work practice requirement;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart, and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any compliance option, operating requirement, or work practice requirement in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart. A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

*Direct-fired process unit* means a process unit that is heated by the passing of combustion exhaust through the process unit such that the process material is contacted by the combustion exhaust.

*Dryer heated zones* means the zones of a softwood veneer dryer or fiberboard mat dryer that are equipped with heating and hot air circulation units. The cooling zone(s) of the dryer through which ambient air is blown are not part of the dryer heated zones.

*Dry forming* means the process of making a mat of resinated fiber to be compressed into a reconstituted wood product such as particleboard, oriented strandboard, medium density fiberboard, or hardboard.

*Dry rotary dryer* means a rotary dryer that dries wood particles or fibers with a maximum inlet moisture content of less than or equal to 30 percent (by weight, dry basis) and operates with a maximum inlet temperature of less than or equal to 600 °F. A dry rotary dryer is a process unit.

*Engineered wood product* means a product made with lumber, veneers, strands of wood, or from other small wood elements that are bound together with resin. Engineered wood products include, but are not limited to, laminated strand lumber, laminated veneer lumber, parallel strand lumber, wood I-joists, and glue-laminated beams.

*Fiber* means the discrete elements of wood or similar cellulosic material, which are separated by mechanical means, as in refining, that can be formed into boards.

*Fiberboard* means a composite panel composed of cellulosic fibers (usually wood or agricultural material) made by wet forming and compacting a mat of fibers. Fiberboard density generally is less than 0.50 grams per cubic centimeter (31.5 pounds per cubic foot).

*Fiberboard mat dryer* means a dryer used to reduce the moisture of wet-formed wood fiber mats by applying heat. A *fiberboard mat dryer* is a process unit.

*Flame zone* means the portion of the combustion chamber in a combustion unit that is occupied by the flame envelope.

*Furnish* means the fibers, particles, or strands used for making boards.

*Glue-laminated beam* means a structural wood beam made by bonding lumber together along its faces with resin.

*Green rotary dryer* means a rotary dryer that dries wood particles or fibers with an inlet moisture content of greater than 30 percent (by weight, dry basis) at any dryer inlet temperature or operates with an inlet temperature of greater than 600 °F with any inlet moisture content. A *green rotary dryer* is a process unit.

*Group 1 miscellaneous coating operations* means application of edge seals, nail lines, logo (or other information) paint, shelving edge fillers, trademark/gradestamp inks, and wood putty patches to plywood and composite wood products (except kiln-dried lumber) on the same site where the plywood and composite wood products are manufactured. Group 1 miscellaneous coating operations also include application of synthetic patches to plywood at new affected sources.

*Hardboard* means a composite panel composed of inter-felted cellulosic fibers made by dry or wet forming and pressing of a resinated fiber mat. Hardboard generally has a density of 0.50 grams per cubic centimeter (31.5 pounds per cubic foot) or greater.

*Hardboard oven* means an oven used to heat treat or temper hardboard after hot pressing. Humidification chambers are not considered as part of hardboard ovens. A *hardboard oven* is a process unit.

*Hardwood* means the wood of a broad-leafed tree, either deciduous or evergreen. Examples of hardwoods include, but are not limited to, aspen, birch, poplar, and oak.

*Hardwood veneer dryer* means a dryer that removes excess moisture from veneer by conveying the veneer through a heated medium on rollers, belts, cables, or wire mesh. Hardwood veneer dryers are used to dry veneer with less than 30 percent softwood species on an annual volume basis. Veneer kilns that operate as batch units, veneer dryers heated by radio frequency or microwaves that are used to redry veneer, and veneer redryers (defined elsewhere in this section) that are heated by conventional means are not considered to be hardwood veneer dryers. A *hardwood veneer dryer* is a process unit.

*Kiln-dried lumber* means solid wood lumber that has been dried in a lumber kiln.

*Laminated strand lumber (LSL)* means a composite product formed into a billet made of thin wood strands cut from whole logs, resinated, and pressed together with the grain of each strand oriented parallel to the length of the finished product.

*Laminated veneer lumber (LVL)* means a composite product formed into a billet made from layers of resinated wood veneer sheets or pieces pressed together with the grain of each veneer aligned primarily along the length of the finished product. *Laminated veneer lumber* is also known as parallel strand lumber (PSL).

*Lumber* means boards or planks sawed or split from logs or timber, including logs or timber processed for use as utility poles or other wood components. Lumber can be either green (non-dried) or dried. Lumber is typically either air-dried or kiln-dried.

*Lumber kiln* means an enclosed dryer operated by applying heat to reduce the moisture content of lumber.

*Medium density fiberboard (MDF)* means a composite panel composed of cellulosic fibers (usually wood or agricultural fiber) made by dry forming and pressing of a resinated fiber mat.

*Method detection limit* means the minimum concentration of an analyte that can be determined with 99 percent confidence that the true value is greater than zero.

*Miscellaneous coating operations* means application of any of the following to plywood or composite wood products: edge seals, moisture sealants, anti-skid coatings, company logos, trademark or grade stamps, nail lines, synthetic patches, wood patches, wood putty, concrete forming oils, glues for veneer composing, and shelving edge fillers. Miscellaneous coating operations also include the application of primer to oriented strandboard siding that occurs at the same site as oriented strandboard manufacture and application of asphalt, clay slurry, or titanium dioxide coatings to fiberboard at the same site of fiberboard manufacture.

*Molded particleboard* means a shaped composite product (other than a composite panel) composed primarily of cellulosic materials (usually wood or agricultural fiber) generally in the form of discrete pieces or particles, as distinguished from fibers, which are pressed together with resin.

*MSF* means thousand square feet (92.9 square meters). Square footage of panels is usually measured on a thickness basis, such as 3/8-inch, to define the total volume of panels. Equation 6 of §63.2262(j) shows how to convert from one thickness basis to another.

*Nondetect data* means, for the purposes of this subpart, any value that is below the method detection limit.

*Non-HAP coating* means a coating with HAP contents below 0.1 percent by mass for Occupational Safety and Health Administration-defined carcinogens as specified in 29 CFR 1910.1200(d)(4), and below 1.0 percent by mass for other HAP compounds.

*1-hour period* means a 60-minute period.

*Oriented strandboard (OSB)* means a composite panel produced from thin wood strands cut from whole logs, formed into resinated layers (with the grain of strands in one layer oriented perpendicular to the strands in adjacent layers), and pressed.

*Oven-dried ton(s) (ODT)* means tons of wood dried until all of the moisture in the wood is removed. One oven-dried ton equals 907 oven-dried kilograms.

*Parallel strand lumber (PSL)* means a composite product formed into a billet made from layers of resinated wood veneer sheets or pieces pressed together with the grain of each veneer aligned primarily along the length of the finished product. *Parallel strand lumber* is also known as laminated veneer lumber (LVL).

*Partial wood products enclosure* means an enclosure that does not meet the design criteria for a wood products enclosure as defined in this subpart.

*Particle* means a discrete, small piece of cellulosic material (usually wood or agricultural fiber) produced mechanically and used as the aggregate for a particleboard.

*Particleboard* means a composite panel composed primarily of cellulosic materials (usually wood or agricultural fiber) generally in the form of discrete pieces or particles, as distinguished from fibers, which are pressed together with resin.

*Plywood* means a panel product consisting of layers of wood veneers hot pressed together with resin. Plywood includes panel products made by hot pressing (with resin) veneers to a substrate such as particleboard, medium density fiberboard, or lumber. Plywood products may be flat or curved.

*Plywood and composite wood products (PCWP) manufacturing facility* means a facility that manufactures plywood and/or composite wood products by bonding wood material (fibers, particles, strands, veneers, etc.) or agricultural fiber, generally with resin under heat and pressure, to form a panel, engineered wood product, or other product defined in §63.2292. Plywood and composite wood products manufacturing facilities also include facilities that manufacture dry veneer and lumber kilns located at any facility. Plywood and composite wood products include, but are not limited to, plywood, veneer, particleboard, molded particleboard, oriented strandboard, hardboard, fiberboard, medium density fiberboard, laminated strand lumber, laminated veneer lumber, wood I-joists, kiln-dried lumber, and glue-laminated beams.

*Press predryer* means a dryer used to reduce the moisture and elevate the temperature by applying heat to a wet-formed fiber mat before the mat enters a hot press. A *press predryer* is a process unit.

*Pressurized refiner* means a piece of equipment operated under pressure for preheating (usually by steaming) wood material and refining (rubbing or grinding) the wood material into fibers. Pressurized refiners are operated with continuous infeed and outfeed of wood material and maintain elevated internal pressures ( *i.e.* , there is no pressure release) throughout the preheating and refining process. A *pressurized refiner* is a process unit.

*Primary tube dryer* means a single-stage tube dryer or the first stage of a multi-stage tube dryer. Tube dryer stages are separated by vents for removal of moist gases between stages ( *e.g.* , a product cyclone at the end of a single-stage dryer or between the first and second stages of a multi-stage tube dryer). The first stage of a multi-stage tube dryer is used to remove the majority of the moisture from the wood furnish (compared to the moisture reduction in subsequent stages of the tube dryer). Blow-lines used to apply resin are considered part of the primary tube dryer. A *primary tube dryer* is a process unit.

*Process unit* means equipment classified according to its function such as a blender, dryer, press, former, or board cooler.

*Reconstituted wood product board cooler* means a piece of equipment designed to reduce the temperature of a board by means of forced air or convection within a controlled time period after the board exits the reconstituted wood product press unloader. Board coolers include wicket and star type coolers commonly found at medium density fiberboard and particleboard plants. Board coolers do not include cooling sections of dryers ( *e.g.* , veneer dryers or fiberboard mat dryers) or coolers integrated into or following hardboard bake ovens or humidifiers. A *reconstituted wood product board cooler* is a process unit.

*Reconstituted wood product press* means a press, including (if applicable) the press unloader, that presses a resinated mat of wood fibers, particles, or strands between hot platens or hot rollers to compact and set the mat into a panel by simultaneous application of heat and pressure. Reconstituted wood product presses are used in the manufacture of hardboard, medium density fiberboard, particleboard, and oriented strandboard. Extruders are not considered to be reconstituted wood product presses. A *reconstituted wood product press* is a process unit.

*Representative operating conditions* means operation of a process unit during performance testing under the conditions that the process unit will typically be operating in the future, including use of a representative range of materials ( *e.g.* , wood material of a typical species mix and moisture content or typical resin formulation) and representative operating temperature range.

*Resin* means the synthetic adhesive (including glue) or natural binder, including additives, used to bond wood or other cellulosic materials together to produce plywood and composite wood products.

*Responsible official* means responsible official as defined in 40 CFR 70.2 and 40 CFR 71.2.

*Rotary strand dryer* means a rotary dryer operated by applying heat and used to reduce the moisture of wood strands used in the manufacture of oriented strandboard, laminated strand lumber, or other wood strand-based products. A *rotary strand dryer* is a process unit.

*Secondary tube dryer* means the second stage and subsequent stages following the primary stage of a multi-stage tube dryer. Secondary tube dryers, also referred to as relay dryers, operate at lower temperatures than the primary tube dryer they follow. Secondary tube dryers are used to remove only a small amount of the furnish moisture compared to the furnish moisture reduction across the primary tube dryer. A *secondary tube dryer* is a process unit.

*Softwood* means the wood of a coniferous tree. Examples of softwoods include, but are not limited to, Southern yellow pine, Douglas fir, and White spruce.

*Softwood veneer dryer* means a dryer that removes excess moisture from veneer by conveying the veneer through a heated medium, generally on rollers, belts, cables, or wire mesh. Softwood veneer dryers are used to dry veneer with greater than or equal to 30 percent softwood species on an annual volume basis. Veneer kilns that operate as batch units, veneer dryers heated by radio frequency or microwaves that are used to redry veneer, and veneer redryers (defined elsewhere in this section) that are heated by conventional means are not considered to be softwood veneer dryers. A *softwood veneer dryer* is a process unit.

*Startup* means bringing equipment online and starting the production process.

*Startup, initial* means the first time equipment is put into operation. Initial startup does not include operation solely for testing equipment. Initial startup does not include subsequent startups (as defined in this section) following malfunction or shutdowns or following changes in product or between batch operations. Initial startup does not include startup of equipment that occurred when the source was an area source.

*Startup, shutdown, and malfunction plan (SSMP)* means a plan developed according to the provisions of §63.6(e)(3).

*Strand* means a long (with respect to thickness and width), flat wood piece specially cut from a log for use in oriented strandboard, laminated strand lumber, or other wood strand-based product.

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

*Thermal oxidizer* means a control system that combusts or oxidizes exhaust gas from a process unit. Thermal oxidizers include regenerative thermal oxidizers and combustion units.

*Total hazardous air pollutant emissions* means, for purposes of this subpart, the sum of the emissions of the following six compounds: acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde.

*Tube dryer* means a single-stage or multi-stage dryer operated by applying heat to reduce the moisture of wood fibers or particles as they are conveyed (usually pneumatically) through the dryer. Resin may or may not be applied to the wood material before it enters the tube dryer. Tube dryers do not include pneumatic fiber transport systems that use temperature and humidity conditioned pneumatic system supply air in order to prevent cooling of the wood fiber as it is moved through the process. A *tube dryer* is a process unit.

*Veneer* means thin sheets of wood peeled or sliced from logs for use in the manufacture of wood products such as plywood, laminated veneer lumber, or other products.

*Veneer redryer* means a dryer heated by conventional means, such as direct wood-fired, direct-gas-fired, or steam heated, that is used to redry veneer that has been previously dried. Because the veneer dried in a veneer redryer has been previously dried, the inlet moisture content of the veneer entering the redryer is less than 25 percent (by weight, dry basis). Batch units used to redry veneer (such as redry cookers) are not considered to be veneer redryers. A *veneer redryer* is a process unit.

*Wet control device* means any equipment that uses water as a means of collecting an air pollutant. Wet control devices include scrubbers, wet electrostatic precipitators, and electrified filter beds. Wet control devices do not include biofilters or other equipment that destroys or degrades HAP.

*Wet forming* means the process of making a slurry of water, fiber, and additives into a mat of fibers to be compressed into a fiberboard or hardboard product.

*Wood I-joists* means a structural wood beam with an I-shaped cross section formed by bonding (with resin) wood or laminated veneer lumber flanges onto a web cut from a panel such as plywood or oriented strandboard.

*Wood products enclosure* means a permanently installed containment that was designed to meet the following physical design criteria:

- (1) Any natural draft opening shall be at least four equivalent opening diameters from each HAP-emitting point, except for where board enters and exits the enclosure, unless otherwise specified by the EPA Administrator.
- (2) The total area of all natural draft openings shall not exceed 5 percent of the surface area of the enclosure's four walls, floor, and ceiling.
- (3) The average facial velocity of air through all natural draft openings shall be at least 3,600 meters per hour (200 feet per minute). The direction of airflow through all natural draft openings shall be into the enclosure.
- (4) All access doors and windows whose areas are not included in item 2 of this definition and are not included in the calculation of facial velocity in item 3 of this definition shall be closed during routine operation of the process.
- (5) The enclosure is designed and maintained to capture all emissions for discharge through a control device.

*Work practice requirement* means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

[69 FR 46011, July 30, 2004, as amended at 71 FR 8372, Feb. 16, 2006]

**Table 1A to Subpart DDDD of Part 63—Production-Based Compliance Options**

| <b>For the following process units . . .</b>                                | <b>You must meet the following production-based compliance option (total HAP<sup>a</sup>basis) . . .</b> |
|---|--|
| (1) Fiberboard mat dryer heated zones (at new affected sources only)        | 0.022 lb/MSF 1/2&inch;.  |
| (2) Green rotary dryers   | 0.058 lb/ODT.  |
| (3) Hardboard ovens   | 0.022 lb/MSF 1/8&inch;.  |
| (4) Press predryers (at new affected sources only)                          | 0.037 lb/MSF 1/2&inch;.  |
| (5) Pressurized refiners  | 0.039 lb/ODT.  |
| (6) Primary tube dryers   | 0.26 lb/ODT.   |
| (7) Reconstituted wood product board coolers (at new affected sources only) | 0.014 lb/MSF 3/4&inch;.  |
| (8) Reconstituted wood product presses                                      | 0.30 lb/MSF 3/4&inch;.   |
| (9) Softwood veneer dryer heated zones                                      | 0.022 lb/MSF 3/8&inch;.  |
| (10) Rotary strand dryers   | 0.18 lb/ODT.   |
| (11) Secondary tube dryers  | 0.010 lb/ODT.  |

<sup>a</sup>Total HAP, as defined in §63.2292, includes acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde.  
 lb/ODT = pounds per oven-dried ton; lb/MSF = pounds per thousand square feet with a specified thickness basis (inches). Section 63.2262(j) shows how to convert from one thickness basis to another.

Note: There is no production-based compliance option for conveyor strand dryers.

**Table 1B to Subpart DDDD of Part 63—Add-on Control Systems Compliance Options**

| <b>For each of the following process units . . .</b>  | <b>You must comply with one of the following six compliance options by using an emissions control system . . .</b>   |
|---|--|
| Fiberboard mat dryer heated zones (at new affected sources only); green rotary dryers; hardboard ovens; press predryers (at new affected sources only); pressurized refiners; primary tube dryers; secondary tube dryers; reconstituted wood product board coolers (at new affected sources only); reconstituted wood product presses; softwood veneer dryer heated zones; rotary strand dryers; conveyor strand dryer zone one (at existing affected sources); and conveyor strand dryer zones one and two (at new affected sources) | (1) Reduce emissions of total HAP, measured as THC (as carbon) <sup>a</sup> , by 90 percent; or<br>(2) Limit emissions of total HAP, measured as THC (as carbon) <sup>a</sup> , to 20 ppmvd; or<br>(3) Reduce methanol emissions by 90 percent; or<br>(4) Limit methanol emissions to less than or equal to 1 ppmvd if uncontrolled methanol emissions entering the control device are greater than or equal to 10 ppmvd; or<br>(5) Reduce formaldehyde emissions by 90 percent; or<br>(6) Limit formaldehyde emissions to less than or equal to 1 ppmvd if uncontrolled formaldehyde emissions entering the control device are greater than or equal to 10 ppmvd. |

<sup>a</sup>You may choose to subtract methane from THC as carbon measurements.

**Table 2 to Subpart DDDD of Part 63—Operating Requirements**

| <b>If you operate a(n) . . .</b> | <b>You must . . .</b>   | <b>Or you must . . .</b>  |
|----------------------------------|---|---|
| (1) Thermal oxidizer             | Maintain the 3-hour block average firebox temperature above the minimum temperature established during the performance test | Maintain the 3-hour block average THC concentration <sup>a</sup> in the thermal oxidizer exhaust below the maximum concentration established during the performance test. |
| (2) Catalytic oxidizer           | Maintain the 3-hour block average   | Maintain the 3-hour block average   |

|  |   |   |
|--|---|---|
|  | catalytic oxidizer temperature above the minimum temperature established during the performance test; AND check the activity level of a representative sample of the catalyst at least every 12 months                            | THC concentration <sup>a</sup> in the catalytic oxidizer exhaust below the maximum concentration established during the performance test.                               |
| (3) Biofilter  | Maintain the 24-hour block biofilter bed temperature within the range established according to §63.2262(m)  | Maintain the 24-hour block average THC concentration <sup>a</sup> in the biofilter exhaust below the maximum concentration established during the performance test.     |
| (4) Control device other than a thermal oxidizer, catalytic oxidizer, or biofilter   | Petition the EPA Administrator for site-specific operating parameter(s) to be established during the performance test and maintain the average operating parameter(s) within the range(s) established during the performance test | Maintain the 3-hour block average THC concentration <sup>a</sup> in the control device exhaust below the maximum concentration established during the performance test. |
| (5) Process unit that meets a compliance option in Table 1A of this subpart, or a process unit that generates debits in an emissions average without the use of a control device | Maintain on a daily basis the process unit controlling operating parameter(s) within the ranges established during the performance test according to §63.2262(n)  | Maintain the 3-hour block average THC concentration <sup>a</sup> in the process unit exhaust below the maximum concentration established during the performance test.   |

<sup>a</sup>You may choose to subtract methane from THC measurements.

**Table 3 to Subpart DDDD of Part 63—Work Practice Requirements**

| <b>For the following process units at existing or new affected sources . . .</b> | <b>You must . . .</b>   |
|--|---|
| (1) Dry rotary dryers  | Process furnish with a 24-hour block average inlet moisture content of less than or equal to 30 percent (by weight, dry basis); AND operate with a 24-hour block average inlet dryer temperature of less than or equal to 600 °F. |
| (2) Hardwood veneer dryers   | Process less than 30 volume percent softwood species on an annual basis.  |
| (3) Softwood veneer dryers   | Minimize fugitive emissions from the dryer doors through (proper maintenance procedures) and the green end of the dryers (through proper balancing of the heated zone exhausts).  |
| (4) Veneer redryers  | Process veneer that has been previously dried, such that the 24-hour block average inlet moisture content of the veneer is less than or equal to 25 percent (by weight, dry basis).   |

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|--|--|
| (5) Group 1 miscellaneous coating operations | Use non-HAP coatings as defined in §63.2292. |
|--|--|

**Table 4 to Subpart DDDD of Part 63—Requirements for Performance Tests**

| For ...  | You must ...   | Using ...  |
|--|--|--|
| (1) each process unit subject to a compliance option in table 1A or 1B to this subpart or used in calculation of an emissions average under §63.2240(c)                    | select sampling port's location and the number of traverse ports | Method 1 or 1A of 40 CFR part 60, appendix A (as appropriate).   |
| (2) each process unit subject to a compliance option in table 1A or 1B to this subpart or used in calculation of an emissions average under §63.2240(c)                    | determine velocity and volumetric flow rate                      | Method 2 in addition to Method 2A, 2C, 2D, 2F, or 2G in appendix A to 40 CFR part 60 (as appropriate).   |
| (3) each process unit subject to a compliance option in table 1A or 1B to this subpart or used in calculation of an emissions average under §63.2240(c)                    | conduct gas molecular weight analysis                            | Method 3, 3A, or 3B in appendix A to 40 CFR part 60 (as appropriate).  |
| (4) each process unit subject to a compliance option in table 1A or 1B to this subpart or used in calculation of an emissions average under §63.2240(c)                    | measure moisture content of the stack gas                        | Method 4 in appendix A to 40 CFR part 60; OR Method 320 in appendix A to 40 CFR part 63; OR ASTM D6348–03 (IBR, see §63.14(b)).  |
| (5) each process unit subject to a compliance option in table 1B to this subpart for which you choose to demonstrate compliance using a total HAP as THC compliance option | measure emissions of total HAP as THC                            | Method 25A in appendix A to 40 CFR part 60. You may measure emissions of methane using EPA Method 18 in appendix A to 40 CFR part 60 and subtract the methane emissions from the emissions of total HAP as THC.  |
| (6) each process unit subject to a compliance option in table 1A to this subpart; OR for each process unit used in calculation of an emissions average under §63.2240(c)   | measure emissions of total HAP (as defined in §63.2292)          | Method 320 in appendix A to 40 CFR part 63; OR the NCASI Method IM/CAN/WP–99.02 (IBR, see §63.14(f)); OR the NCASI Method ISS/FP–A105.01 (IBR, see §63.14(f)); OR ASTM D6348–03 (IBR, see §63.14(b)) provided that percent R as determined in Annex A5 of ASTM D6348–03 is equal or greater than 70 percent and less than or equal to 130 percent. |

|   |   |   |
|---|---|---|
| <p>(7) each process unit subject to a compliance option in table 1B to this subpart for which you choose to demonstrate compliance using a methanol compliance option</p>   | <p>measure emissions of methanol</p>  | <p>Method 308 in appendix A to 40 CFR part 63; OR Method 320 in appendix A to 40 CFR part 63; OR the NCASI Method CI/WP-98.01 (IBR, see §63.14(f)); OR the NCASI Method IM/CAN/WP-99.02 (IBR, see §63.14(f)); OR the NCASI Method ISS/FP-A105.01 (IBR, see §63.14(f)).</p>  |
| <p>(8) each process unit subject to a compliance option in table 1B to this subpart for which you choose to demonstrate compliance using a formaldehyde compliance option</p>   | <p>measure emissions of formaldehyde</p>  | <p>Method 316 in appendix A to 40 CFR part 63; OR Method 320 in appendix A to 40 CFR part 63; OR Method 0011 in “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods” (EPA Publication No. SW-846) for formaldehyde; OR the NCASI Method CI/WP-98.01 (IBR, see §63.14(f)); OR the NCASI Method IM/CAN/WP-99.02 (IBR, see §63.14(f)); OR the NCASI Method ISS/FP-A105.01 (IBR, see §63.14(f)).</p>  |
| <p>(9) each reconstituted wood product press at a new or existing affected source or reconstituted wood product board cooler at a new affected source subject to a compliance option in table 1B to this subpart or used in calculation of an emissions average under §63.2240(c)</p> | <p>meet the design specifications included in the definition of wood products enclosure in §63.2292; or determine the percent capture efficiency of the enclosure directing emissions to an add-on control device</p> | <p>Methods 204 and 204A through 204F of 40 CFR part 51, appendix M, to determine capture efficiency (except for wood products enclosures as defined in §63.2292). Enclosures that meet the definition of wood products enclosure or that meet Method 204 requirements for a permanent total enclosure (PTE) are assumed to have a capture efficiency of 100 percent. Enclosures that do not meet either the PTE requirements or design criteria for a wood products enclosure must determine the capture efficiency by constructing a TTE according to the requirements of Method 204 and applying Methods 204A through 204F (as appropriate). As an alternative to Methods 204 and 204A through 204F, you may use the tracer gas method contained in appendix A to this subpart.</p> |
| <p>(10) each reconstituted wood product press at a new or existing affected source or reconstituted wood product board cooler at a new affected source subject to a compliance option in table 1A to this subpart</p>   | <p>determine the percent capture efficiency</p>   | <p>a TTE and Methods 204 and 204A through 204F (as appropriate) of 40 CFR part 51, appendix M. As an alternative to installing a TTE and using Methods 204 and 204A through 204F, you may use the tracer gas method contained in appendix A to this subpart. Enclosures that meet the design</p>  |

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|  |  | criteria (1) through (4) in the definition of wood products enclosure, or that meet Method 204 requirements for a PTE (except for the criteria specified in section 6.2 of Method 204) are assumed to have a capture efficiency of 100 percent. Measured emissions divided by the capture efficiency provides the emission rate. |
| (11) each process unit subject to a compliance option in tables 1A and 1B to this subpart or used in calculation of an emissions average under §63.2240(c) | establish the site-specific operating requirements (including the parameter limits or THC concentration limits) in table 2 to this subpart | data from the parameter monitoring system or THC CEMS and the applicable performance test method(s).   |

[71 FR 8373, Feb. 16, 2006]

**Table 5 to Subpart DDDD of Part 63—Performance Testing and Initial Compliance Demonstrations for the Compliance Options and Operating Requirements**

| <b>For each . . .</b>                               | <b>For the following compliance options and operating requirements . . .</b>    | <b>You have demonstrated initial compliance if . . .</b>  |
|---|---|---|
| (1) Process unit listed in Table 1A to this subpart | Meet the production-based compliance options listed in Table 1A to this subpart | The average total HAP emissions measured using the methods in Table 4 to this subpart over the 3-hour performance test are no greater than the compliance option in Table 1A to this subpart; AND you have a record of the operating requirement(s) listed in Table 2 to this subpart for the process unit over the performance test during which emissions did not exceed the compliance option value. |
| (2) Process unit listed in Table 1B to this subpart | Reduce emissions of total HAP, measured as THC, by 90 percent                   | Total HAP emissions, measured using the methods in Table 4 to this subpart over the 3-hour performance test, are reduced by at least 90 percent, as calculated using the procedures in §63.2262; AND you have a record of the operating requirement(s) listed in Table 2 to this subpart for the process unit over the performance test during which emissions were reduced by at least 90 percent.     |

|  |   |  |
|--|---|--|
| (3) Process unit listed in Table 1B to this subpart  | Limit emissions of total HAP, measured as THC, to 20 ppmvd  | The average total HAP emissions, measured using the methods in Table 4 to this subpart over the 3-hour performance test, do not exceed 20 ppmvd; AND you have a record of the operating requirement(s) listed in Table 2 to this subpart for the process unit over the performance test during which emissions did not exceed 20 ppmvd.  |
| (4) Process unit listed in Table 1B to this subpart  | Reduce methanol or formaldehyde emissions by 90 percent   | The methanol or formaldehyde emissions measured using the methods in Table 4 to this subpart over the 3-hour performance test, are reduced by at least 90 percent, as calculated using the procedures in §63.2262; AND you have a record of the operating requirement(s) listed in Table 2 to this subpart for the process unit over the performance test during which emissions were reduced by at least 90 percent.  |
| (5) Process unit listed in Table 1B to this subpart  | Limit methanol or formaldehyde emissions to less than or equal to 1 ppmvd (if uncontrolled emissions are greater than or equal to 10 ppmvd) | The average methanol or formaldehyde emissions, measured using the methods in Table 4 to this subpart over the 3-hour performance test, do not exceed 1 ppmvd; AND you have a record of the operating requirement(s) listed in Table 2 to this subpart for the process unit over the performance test during which emissions did not exceed 1 ppmvd. If the process unit is a reconstituted wood product press or a reconstituted wood product board cooler, your capture device either meets the EPA Method 204 criteria for a PTE or achieves a capture efficiency of greater than or equal to 95 percent. |
| (6) Reconstituted wood product press at a new or existing affected source, or reconstituted wood product board cooler at a new affected source | Compliance options in Tables 1A and 1B to this subpart or the emissions averaging compliance option in §63.2240(c)                          | You submit the results of capture efficiency verification using the methods in Table 4 to this subpart with your Notification of Compliance Status.  |
| (7) Process unit listed in Table 1B to this subpart controlled by routing exhaust to a combustion unit   | Compliance options in Table 1B to this subpart or the emissions averaging compliance option in §63.2240(c)                                  | You submit with your Notification of Compliance Status documentation showing that the process exhausts controlled enter into the flame zone of your combustion unit.   |
| (8) Process unit listed in Table 1B to this subpart  | Compliance options in Table 1B to this subpart or   | You submit with your Notification of Compliance Status your plan to address how organic HAP  |

|  |  |  |
|--|--|--|
| using a wet control device as the sole means of reducing HAP emissions | the emissions averaging compliance option in §63.2240(c) | captured in the wastewater from the wet control device is contained or destroyed to minimize re-release to the atmosphere. |
|--|--|--|

**Table 6 to Subpart DDDD of Part 63—Initial Compliance Demonstrations for Work Practice Requirements**

| <b>For each . . .</b>                        | <b>For the following work practice requirements . . .</b>  | <b>You have demonstrated initial compliance if . . .</b>   |
|--|--|--|
| (1) Dry rotary dryer                         | Process furnish with an inlet moisture content less than or equal to 30 percent (by weight, dry basis) AND operate with an inlet dryer temperature of less than or equal to 600 °F | You meet the work practice requirement AND you submit a signed statement with the Notification of Compliance Status that the dryer meets the criteria of a “dry rotary dryer” AND you have a record of the inlet moisture content and inlet dryer temperature (as required in §63.2263).   |
| (2) Hardwood veneer dryer                    | Process less than 30 volume percent softwood species   | You meet the work practice requirement AND you submit a signed statement with the Notification of Compliance Status that the dryer meets the criteria of a “hardwood veneer dryer” AND you have a record of the percentage of softwoods processed in the dryer (as required in §63.2264).  |
| (3) Softwood veneer dryer                    | Minimize fugitive emissions from the dryer doors and the green end   | You meet the work practice requirement AND you submit with the Notification of Compliance Status a copy of your plan for minimizing fugitive emissions from the veneer dryer heated zones (as required in §63.2265).   |
| (4) Veneer redryers                          | Process veneer with an inlet moisture content of less than or equal to 25 percent (by weight, dry basis)   | You meet the work practice requirement AND you submit a signed statement with the Notification of Compliance Status that the dryer operates only as a redryer AND you have a record of the veneer inlet moisture content of the veneer processed in the redryer (as required in §63.2266). |
| (5) Group 1 miscellaneous coating operations | Use non-HAP coatings as defined in §63.2292  | You meet the work practice requirement AND you submit a signed statement with the Notification of Compliance Status that you are using non-HAP coatings AND you have a record showing that you are using non-HAP coatings.   |

**Table 7 to Subpart DDDD of Part 63—Continuous Compliance With the Compliance Options and Operating Requirements**

| <b>For . . .</b> | <b>For the following compliance options and operating</b> | <b>You must demonstrate continuous compliance by . . .</b> |
|------------------|---|--|
|------------------|---|--|

|   | <b>requirements . . .</b>  |  |
|---|--|--|
| (1) Each process unit listed in Table 1B to this subpart or used in calculation of an emissions average under §63.2240(c)         | Compliance options in Table 1B to this subpart or the emissions averaging compliance option in §63.2240(c) and the operating requirements in Table 2 to this subpart based on monitoring of operating parameters | Collecting and recording the operating parameter monitoring system data listed in Table 2 to this subpart for the process unit according to §63.2269(a) through (b) and §63.2270; AND reducing the operating parameter monitoring system data to the specified averages in units of the applicable requirement according to calculations in §63.2270; AND maintaining the average operating parameter at or above the minimum, at or below the maximum, or within the range (whichever applies) established according to §63.2262. |
| (2) Each process unit listed in Tables 1A and 1B to this subpart or used in calculation of an emissions average under §63.2240(c) | Compliance options in Tables 1A and 1B to this subpart or the emissions averaging compliance option in §63.2240(c) and the operating requirements in Table 2 of this subpart based on THC CEMS data              | Collecting and recording the THC monitoring data listed in Table 2 to this subpart for the process unit according to §63.2269(d); AND reducing the CEMS data to 3-hour block averages according to calculations in §63.2269(d); AND maintaining the 3-hour block average THC concentration in the exhaust gases less than or equal to the THC concentration established according to §63.2262.   |
| (3) Each process unit using a biofilter   | Compliance options in Tables 1B to this subpart or the emissions averaging compliance option in §63.2240(c)  | Conducting a repeat performance test using the applicable method(s) specified in Table 4 to this subpart within 2 years following the previous performance test and within 180 days after each replacement of any portion of the biofilter bed media with a different type of media or each replacement of more than 50 percent (by volume) of the biofilter bed media with the same type of media.  |
| (4) Each process unit using a catalytic oxidizer  | Compliance options in Table 1B to this subpart or the emissions averaging compliance option in §63.2240(c)   | Checking the activity level of a representative sample of the catalyst at least every 12 months and taking any necessary corrective action to ensure that the catalyst is performing within its design range.  |
| (5) Each process unit listed in Table 1A to this subpart, or each process unit  | Compliance options in Table 1A to this subpart or the emissions averaging compliance option in   | Collecting and recording on a daily basis process unit controlling operating parameter data; AND maintaining the   |

|   |  |  |
|---|--|--|
| without a control device used in calculation of an emissions averaging debit under §63.2240(c)                                  | §63.2240(c) and the operating requirements in Table 2 to this subpart based on monitoring of process unit controlling operating parameters | operating parameter at or above the minimum, at or below the maximum, or within the range (whichever applies) established according to §63.2262.                             |
| (6) Each Process unit listed in Table 1B to this subpart using a wet control device as the sole means of reducing HAP emissions | Compliance options in Table 1B to this subpart or the emissions averaging compliance option in §63.2240(c)                                 | Implementing your plan to address how organic HAP captured in the wastewater from the wet control device is contained or destroyed to minimize re-release to the atmosphere. |

**Table 8 to Subpart DDDD of Part 63—Continuous Compliance With the Work Practice Requirements**

| <b>For ...</b>                               | <b>For the following work practice requirements ...</b>  | <b>You must demonstrate continuous compliance by . . .</b>   |
|--|--|--|
| (1) Dry rotary dryer                         | Process furnish with an inlet moisture content less than or equal to 30 percent (by weight, dry basis) AND operate with an inlet dryer temperature of less than or equal to 600 °F | Maintaining the 24-hour block average inlet furnish moisture content at less than or equal to 30 percent (by weight, dry basis) AND maintaining the 24-hour block average inlet dryer temperature at less than or equal to 600 °F; AND keeping records of the inlet temperature of furnish moisture content and inlet dryer temperature. |
| (2) Hardwood veneer dryer                    | Process less than 30 volume percent softwood species   | Maintaining the volume percent softwood species processed below 30 percent AND keeping records of the volume percent softwood species processed.   |
| (3) Softwood veneer dryer                    | Minimize fugitive emissions from the dryer doors and the green end   | Following (and documenting that you are following) your plan for minimizing fugitive emissions.  |
| (4) Veneer redryers                          | Process veneer with an inlet moisture content of less than or equal to 25 percent (by weight, dry basis)   | Maintaining the 24-hour block average inlet moisture content of the veneer processed at or below of less than or 25 percent AND keeping records of the inlet moisture content of the veneer processed.   |
| (5) Group 1 miscellaneous coating operations | Use non-HAP coatings as defined in §63.2292  | Continuing to use non-HAP coatings AND keeping records showing that you are using non-HAP coatings.  |

**Table 9 to Subpart DDDD of Part 63—Requirements for Reports**

|                                 |                                    |                                       |
|---------------------------------|------------------------------------|---------------------------------------|
| <b>You must submit a(n) ...</b> | <b>The report must contain ...</b> | <b>You must submit the report ...</b> |
|---------------------------------|------------------------------------|---------------------------------------|

|  |  |   |
|--|--|---|
| (1) Compliance report  | The information in §63.2281(c) through (g) | Semiannually according to the requirements in §63.2281(b).  |
| (2) immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your SSMP | (i) Actions taken for the event            | By fax or telephone within 2 working days after starting actions inconsistent with the plan.  |
|  | (ii) The information in §63.10(d)(5)(ii)   | By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority. |

**Table 10 to Subpart DDDD of Part 63—Applicability of General Provisions to Subpart DDDD**

| <b>Citation</b> | <b>Subject</b>   | <b>Brief description</b>  | <b>Applies to subpart DDDD</b> |
|-----------------|--|---|--------------------------------|
| §63.1           | Applicability  | Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications                             | Yes.                           |
| §63.2           | Definitions  | Definitions for part 63 standards   | Yes.                           |
| §63.3           | Units and Abbreviations                                      | Units and abbreviations for part 63 standards   | Yes.                           |
| §63.4           | Prohibited Activities  | Prohibited activities; compliance date; circumvention, fragmentation  | Yes.                           |
| §63.5           | Construction/Reconstruction                                  | Applicability; applications; approvals  | Yes.                           |
| §63.6(a)        | Applicability  | GP apply unless compliance extension; GP apply to area sources that become major  | Yes.                           |
| §63.6(b)(1)–(4) | Compliance Dates for New and Reconstructed Sources           | Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for section 112(f) | Yes.                           |
| §63.6(b)(5)     | Notification   | Must notify if commenced construction or reconstruction after proposal  | Yes.                           |
| §63.6(b)(6)     | [Reserved]   |   |                                |
| §63.6(b)(7)     | Compliance Dates for New and Reconstructed Area Sources that | Area sources that become major must comply with major source standards immediately  | Yes.                           |

|                  |  |   |      |
|------------------|--|---|------|
|                  | Become Major   | upon becoming major, regardless of whether required to comply when they were an area source   |      |
| §63.6(c)(1)–(2)  | Compliance Dates for Existing Sources                        | Comply according to date in subpart, which must be no later than 3 years after effective date; for section 112(f) standards, comply within 90 days of effective date unless compliance extension  | Yes. |
| §63.6(c)(3)–(4)  | [Reserved]   |   |      |
| §63.6(c)(5)      | Compliance Dates for Existing Area Sources that Become Major | Area sources that become major must comply with major source standards by date indicated in subpart or by equivalent time period ( <i>e.g.</i> , 3 years)   | Yes. |
| §63.6(d)         | [Reserved]   |   |      |
| §63.6(e)(1)–(2)  | Operation & Maintenance                                      | Operate to minimize emissions at all times; correct malfunctions as soon as practicable; operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met | Yes. |
| §63.6(e)(3)      | Startup, Shutdown, and Malfunction Plan (SSMP)               | Requirement for SSM and SSMP; content of SSMP   | Yes. |
| §63.6(f)(1)      | Compliance Except During SSM                                 | You must comply with emission standards at all times except during SSM  | Yes. |
| §63.6(f)(2)–(3)  | Methods for Determining Compliance                           | Compliance based on performance test, operation and maintenance plans, records, inspection  | Yes. |
| §63.6(g)(1)–(3)  | Alternative Standard   | Procedures for getting an alternative standard  | Yes. |
| §63.6(h)(1)–(9)  | Opacity/Visible Emission (VE) Standards                      | Requirements for opacity and visible emission standards   | NA.  |
| §63.6(i)(1)–(14) | Compliance Extension   | Procedures and criteria for Administrator to grant compliance extension   | Yes. |
| §63.6(i)(15)     | [Reserved]   |   |      |
| §63.6(i)(16)     | Compliance Extension   | Compliance extension and Administrator's authority  | Yes. |
| §63.6(j)         | Presidential Compliance Exemption                            | President may exempt source category from requirement to comply with rule   | Yes. |

|                 |   |  |      |
|-----------------|---|--|------|
| §63.7(a)(1)–(2) | Performance Test Dates                      | Dates for conducting initial performance testing and other compliance demonstrations; must conduct 180 days after first subject to rule  | Yes. |
| §63.7(a)(3)     | Section 114 Authority                       | Administrator may require a performance test under CAA section 114 at any time   | Yes. |
| §63.7(b)(1)     | Notification of Performance Test            | Must notify Administrator 60 days before the test  | Yes. |
| §63.7(b)(2)     | Notification of Rescheduling                | If have to reschedule performance test, must notify Administrator as soon as practicable   | Yes. |
| §63.7(c)        | Quality Assurance/Test Plan                 | Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing | Yes. |
| §63.7(d)        | Testing Facilities                          | Requirements for testing facilities  | Yes. |
| §63.7(e)(1)     | Conditions for Conducting Performance Tests | Performance tests must be conducted under representative conditions; cannot conduct performance tests during SSM; not a violation to exceed standard during SSM  | Yes. |
| §63.7(e)(2)     | Conditions for Conducting Performance Tests | Must conduct according to rule and EPA test methods unless Administrator approves alternative  | Yes. |
| §63.7(e)(3)     | Test Run Duration                           | Must have three test runs for at least the time specified in the relevant standard; compliance is based on arithmetic mean of three runs; specifies conditions when data from an additional test run can be used           | Yes. |
| §63.7(f)        | Alternative Test Method                     | Procedures by which Administrator can grant approval to use an alternative test method   | Yes. |
| §63.7(g)        | Performance Test Data Analysis              | Must include raw data in performance test report; must submit performance test data 60 days after end of test with the notification of compliance status; keep data for 5 years  | Yes. |
| §63.7(h)        | Waiver of Tests                             | Procedures for Administrator to waive performance test   | Yes. |
| §63.8(a)(1)     | Applicability of Monitoring Requirements    | Subject to all monitoring requirements in standard   | Yes. |

|                  |  |   |      |
|------------------|--|---|------|
| §63.8(a)(2)      | Performance Specifications                         | Performance specifications in appendix B of part 60 apply   | Yes. |
| §63.8(a)(3)      | [Reserved]   |   |      |
| §63.8(a)(4)      | Monitoring with Flares                             | Requirements for flares in §63.11 apply   | NA.  |
| §63.8(b)(1)      | Monitoring   | Must conduct monitoring according to standard unless Administrator approves alternative   | Yes. |
| §63.8(b)(2)–(3)  | Multiple Effluents and Multiple Monitoring Systems | Specific requirements for installing monitoring systems; must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup  | Yes. |
| §63.8(c)(1)      | Monitoring System Operation and Maintenance        | Maintain monitoring system in a manner consistent with and good air pollution control practices   | Yes. |
| §63.8(c)(1)(i)   | Operation and Maintenance of CMS                   | Must maintain and operate CMS in accordance with §63.6(e)(1)  | Yes. |
| §63.8(c)(1)(ii)  | Spare Parts for CMS                                | Must maintain spare parts for routine CMS repairs   | Yes. |
| §63.8(c)(1)(iii) | SSMP for CMS                                       | Must develop and implement SSMP for CMS   | Yes. |
| §63.8(c)(2)–(3)  | Monitoring System Installation                     | Must install to get representative emission of parameter measurements; must verify operational status before or at performance test   | Yes. |
| §63.8(c)(4)      | Continuous Monitoring System (CMS) Requirements    | CMS must be operating except during breakdown, out-of-control, repair, maintenance, and high-level calibration drifts; COMS must have a minimum of one cycle of sampling and analysis for each successive 10-second period and one cycle of data recording for each successive 6-minute period; CEMS must have a minimum of one cycle of operation for each successive 15-minute period | Yes. |
| §63.8(c)(5)      | Continuous Opacity Monitoring                      | COMS minimum procedures   | NA.  |

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|-----------------|--|--|------|
|                 | System (COMS) Minimum Procedures                               |  |      |
| §63.8(c)(6)–(8) | CMS Requirements   | Zero and high-level calibration check requirements; out-of-control periods   | Yes. |
| §63.8(d)        | CMS Quality Control  | Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years. Keep old versions for 5 years after revisions                                       | Yes. |
| §63.8(e)        | CMS Performance Evaluation                                     | Notification, performance evaluation test plan, reports  | Yes. |
| §63.8(f)(1)–(5) | Alternative Monitoring Method                                  | Procedures for Administrator to approve alternative monitoring   | Yes. |
| §63.8(f)(6)     | Alternative to Relative Accuracy Test                          | Procedures for Administrator to approve alternative relative accuracy tests for CEMS   | Yes. |
| §63.8(g)        | Data Reduction   | COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that can't be used in average; rounding of data | Yes. |
| §63.9(a)        | Notification Requirements                                      | Applicability and State delegation   | Yes. |
| §63.9(b)(1)–(2) | Initial Notifications  | Submit notification 120 days after effective date; contents of notification  | Yes. |
| §63.9(b)(3)     | [Reserved]   |  |      |
| §63.9(b)(4)–(5) | Initial Notifications  | Submit notification 120 days after effective date; notification of intent to construct/reconstruct; notification of commencement of construct/reconstruct; notification of startup; contents of each         | Yes. |
| §63.9(c)        | Request for Compliance Extension                               | Can request if cannot comply by date or if installed best available control technology/lowest achievable emission rate   | Yes. |
| §63.9(d)        | Notification of Special Compliance Requirements for New Source | For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date   | Yes. |
| §63.9(e)        | Notification of Performance Test                               | Notify EPA Administrator 60 days prior   | Yes. |
| §63.9(f)        | Notification of Visible Emissions/Opacity Test                 | Notify EPA Administrator 30 days prior   | No.  |

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| §63.9(g)                      | Additional Notifications When Using CMS               | Notification of performance evaluation; notification using COMS data; notification that exceeded criterion for relative accuracy   | Yes. |
| §63.9(h)(1)–(6)               | Notification of Compliance Status                     | Contents; due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority   | Yes. |
| §63.9(i)                      | Adjustment of Submittal Deadlines                     | Procedures for Administrator to approve change in when notifications must be submitted   | Yes. |
| §63.9(j)                      | Change in Previous Information                        | Must submit within 15 days after the change  | Yes. |
| §63.10(a)                     | Recordkeeping/Reporting                               | Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source  | Yes. |
| §63.10(b)(1)                  | Recordkeeping/Reporting                               | General Requirements; keep all records readily available; keep for 5 years   | Yes. |
| §63.10(b)(2)(i)–(iv)          | Records Related to Startup, Shutdown, and Malfunction | Occurrence of each of operation (process equipment); occurrence of each malfunction of air pollution equipment; maintenance on air pollution control equipment; actions during startup, shutdown, and malfunction  | Yes. |
| §63.10(b)(2)(vi) and (x)–(xi) | CMS Records   | Malfunctions, inoperative, out-of-control  | Yes. |
| §63.10(b)(2)(vii)–(ix)        | Records   | Measurements to demonstrate compliance with compliance options and operating requirements; performance test, performance evaluation, and visible emission observation results; measurements to determine conditions of performance tests and performance evaluations | Yes. |
| §63.10(b)(2)(xii)             | Records   | Records when under waiver  | Yes. |
| §63.10(b)(2)(xiii)            | Records   | Records when using alternative to relative accuracy test   | Yes. |
| §63.10(b)(2)(xiv)             | Records   | All documentation supporting initial notification and notification of compliance status  | Yes. |
| §63.10(b)(3)                  | Records   | Applicability determinations   | Yes. |

|                            |  |   |      |
|----------------------------|--|---|------|
| §63.10(c)(1)–(6), (9)–(15) | Records                                    | Additional records for CMS  | Yes. |
| §63.10(c)(7)–(8)           | Records                                    | Records of excess emissions and parameter monitoring exceedances for CMS  | No.  |
| §63.10(d)(1)               | General Reporting Requirements             | Requirement to report   | Yes. |
| §63.10(d)(2)               | Report of Performance Test Results         | When to submit to Federal or State authority  | Yes. |
| §63.10(d)(3)               | Reporting Opacity or VE Observations       | What to report and when   | NA.  |
| §63.10(d)(4)               | Progress Reports                           | Must submit progress reports on schedule if under compliance extension  | Yes. |
| §63.10(d)(5)               | Startup, Shutdown, and Malfunction Reports | Contents and submission   | Yes. |
| §63.10(e)(1)–(2)           | Additional CMS Reports                     | Must report results for each CEM on a unit; written copy of performance evaluation; 3 copies of COMS performance evaluation | Yes. |
| §63.10(e)(3)               | Reports                                    | Excess emission reports   | No.  |
| §63.10(e)(4)               | Reporting COMS data                        | Must submit COMS data with performance test data  | NA.  |
| §63.10(f)                  | Waiver for Recordkeeping/Reporting         | Procedures for EPA Administrator to waive   | Yes. |
| §63.11                     | Flares                                     | Requirements for flares   | NA.  |
| §63.12                     | Delegation                                 | State authority to enforce standards  | Yes. |
| §63.13                     | Addresses                                  | Addresses where reports, notifications, and requests are send   | Yes. |
| §63.14                     | Incorporation by Reference                 | Test methods incorporated by reference  | Yes. |
| §63.15                     | Availability of Information                | Public and confidential information   | Yes. |

**Appendix A to Subpart DDDD of Part 63—Alternative Procedure To Determine Capture Efficiency From Enclosures Around Hot Presses in the Plywood and Composite Wood Products Industry Using Sulfur Hexafluoride Tracer Gas**

1.0 Scope and Application

This procedure has been developed specifically for the rule for the plywood and composite wood products (PCWP) industry and is used to determine the capture efficiency of a partial hot press enclosure in that industry. This procedure is applicable for the determination of capture efficiency for enclosures around hot presses and is an alternative to the construction of temporary total

enclosures (TTE). Sulfur hexafluoride ( $SF_6$ ) is used as a tracer gas (other tracer gases may be used if approved by the EPA Administrator). This gas is not indigenous to the ambient atmosphere and is nonreactive.

This procedure uses infrared spectrometry (IR) as the analytical technique. When the infrared spectrometer used is a Fourier-Transform Infrared spectrometer (FTIR), an alternate instrument calibration procedure may be used; the alternate calibration procedure is the calibration transfer standard (CTS) procedure of EPA Method 320 (appendix A to 40 CFR part 63). Other analytical techniques which are capable of equivalent Method Performance (Section 13.0) also may be used. Specifically, gas chromatography with electron capture detection (GC/ECD) is an applicable technique for analysis of  $SF_6$ .

## 2.0 Summary of Method

A constant mass flow rate of  $SF_6$  tracer gas is released through manifolds at multiple locations within the enclosure to mimic the release of hazardous air pollutants during the press process. This test method requires a minimum of three  $SF_6$  injection points (two at the press unloader and one at the press) and provides details about considerations for locating the injection points. A GC/ECD is used to measure the concentration of  $SF_6$  at the inlet duct to the control device (outlet duct from enclosure). Simultaneously, EPA Method 2 (appendix A to 40 CFR part 60) is used to measure the flow rate at the inlet duct to the control device. The concentration and flow rate measurements are used to calculate the mass emission rate of  $SF_6$  at the control device inlet. Through calculation of the mass of  $SF_6$  released through the manifolds and the mass of  $SF_6$  measured at the inlet to the control device, the capture efficiency of the enclosure is calculated.

In addition, optional samples of the ambient air may be taken at locations around the perimeter of the enclosure to quantify the ambient concentration of  $SF_6$  and to identify those areas of the enclosure that may be performing less efficiently; these samples would be taken using disposable syringes and would be analyzed using a GC/ECD.

Finally, in addition to the requirements specified in this procedure, the data quality objectives (DQO) or lower confidence limit (LCL) criteria specified in appendix A to 40 CFR part 63, subpart KK, Data Quality Objective and Lower Confidence Limit Approaches for Alternative Capture Efficiency Protocols and Test Methods, must also be satisfied. A minimum of three test runs are required for this procedure; however, additional test runs may be required based on the results of the DQO or LCL analysis.

## 3.0 Definitions

3.1 Capture efficiency (CE). The weight per unit time of  $SF_6$  entering the control device divided by the weight per unit time of  $SF_6$  released through manifolds at multiple locations within the enclosure.

3.2 Control device (CD). The equipment used to reduce, by destruction or removal, press exhaust air pollutants prior to discharge to the ambient air.

3.3 Control/destruction efficiency (DE). The volatile organic compound or HAP removal efficiency of the control device.

3.4 Data Quality Objective (DQO) Approach. A statistical procedure to determine the precision of the data from a test series and to qualify the data in the determination of capture efficiency for compliance purposes. If the results of the DQO analysis of the initial three test runs do not satisfy the DQO criterion, the LCL approach can be used or additional test runs must be conducted. If additional test runs are conducted, then the DQO or LCL analysis is conducted using the data from both the initial test runs and all additional test runs.

3.5 Lower Confidence Limit (LCL) Approach. An alternative statistical procedure that can be used to qualify data in the determination of capture efficiency for compliance purposes. If the results of the LCL approach produce a CE that is too low for demonstrating compliance, then additional test runs must be conducted until the LCL or DQO is met. As with the DQO, data from all valid test runs must be used in the calculation.

3.6 Minimum Measurement Level (MML). The minimum tracer gas concentration expected to be measured during the test series. This value is selected by the tester based on the capabilities of the IR spectrometer (or GC/ECD) and the other known or measured parameters of the hot press enclosure to be tested. The selected MML must be above the low-level calibration standard and preferably below the mid-level calibration standard.

3.7 Method 204. The U.S. EPA Method 204, "Criteria For and Verification of a Permanent or Temporary Total Enclosure" (40 CFR part 51, appendix M).

3.8 Method 205. The U.S. EPA Method 205, "Verification of Gas Dilution Systems for Field Instrument Calibrations" (40 CFR part 51, appendix M).

3.9 Method 320. The U.S. EPA Method 320, "Measurement of Vapor Phase Organic and Inorganic Emissions by Extractive Fourier Transform Infrared (FTIR) Spectroscopy" (40 CFR part 63, appendix A).

3.10 Overall capture and control efficiency (CCE). The collection and control/destruction efficiency of both the PPE and CD combined. The CCE is calculated as the product of the CE and DE.

3.11 Partial press enclosure (PPE). The physical barrier that "partially" encloses the press equipment, captures a significant amount of the associated emissions, and transports those emissions to the CD.

3.12 Test series. A minimum of three test runs or, when more than three runs are conducted, all of the test runs conducted.

#### 4.0 Interferences

There are no known interferences.

#### 5.0 Safety

Sulfur hexafluoride is a colorless, odorless, nonflammable liquefied gas. It is stable and nonreactive and, because it is noncorrosive, most structural materials are compatible with it. The Occupational Safety and Health Administration Permissible Emission Limit-Time Weighted Average (PEL-TWA) and Threshold Limit Value-Time Weighted Average (TLV-TWA) concentrations are 1,000 parts per million. Sulfur hexafluoride is an asphyxiant. Exposure to an oxygen-deficient atmosphere (less than 19.5 percent oxygen) may cause dizziness, drowsiness, nausea, vomiting, excess salivation, diminished mental alertness, loss of consciousness, and death. Exposure to atmospheres containing less than 12 percent oxygen will bring about unconsciousness without warning and so quickly that the individuals cannot help themselves. Contact with liquid or cold vapor may cause frostbite. Avoid breathing sulfur hexafluoride gas. Self-contained breathing apparatus may be required by rescue workers. Sulfur hexafluoride is not listed as a carcinogen or a potential carcinogen.

#### 6.0 Equipment and Supplies

This method requires equipment and supplies for: (a) the injection of tracer gas into the enclosure, (b) the measurement of the tracer gas concentration in the exhaust gas entering the control device, and (c) the measurement of the volumetric flow rate of the exhaust gas entering the control device. In addition, the requisite equipment needed for EPA Methods 1–4 in appendix A to 40 CFR part 60 will be required. Equipment and supplies for optional ambient air sampling are discussed in Section 8.6.

##### 6.1 Tracer Gas Injection.

6.1.1 Manifolds. This method requires the use of tracer gas supply cylinder(s) along with the appropriate flow control elements. Figure 1 shows a schematic drawing of the injection system showing potential locations for the tracer gas manifolds. Figure 2 shows a schematic drawing of the recommended configuration of the injection manifold. Three tracer gas discharge manifolds are required at a minimum.

6.1.2 Flow Control Meter. Flow control and measurement meter for measuring the quantity of tracer gas injected. A mass flow, volumetric flow, or critical orifice control meter can be used for this method. The meter must be accurate to within  $\pm 5$  percent at the flow rate used. This means that the flow meter must be calibrated against a primary standard for flow measurement at the appropriate flow rate.

##### 6.2 Measurement of Tracer Gas Concentration.

6.2.1 Sampling Probes. Use Pyrex or stainless steel sampling probes of sufficient length to reach the traverse points calculated according to EPA Method 1 (appendix A to 40 CFR part 60).

6.2.2 Sampling Line. Use a heated Teflon sampling line to transport the sample to the analytical instrument.

6.2.3 Sampling Pump. Use a sampling pump capable of extracting sufficient sample from the duct and transporting to the analytical instrument.

6.2.4 Sample Conditioning System. Use a particulate filter sufficient to protect the sampling pump and analytical instrument. At the discretion of the tester and depending on the equipment used and the moisture content of the exhaust gas, it may be necessary to further condition the sample by removing moisture using a condenser.

6.2.5 Analytical Instrument. Use one of the following analytical instruments.

6.2.5.1 Spectrometer. Use an infrared spectrometer designed to measuring SF<sub>6</sub> tracer gas and capable of meeting or exceeding the specifications of this procedure. An FTIR meeting the specifications of Method 320 in appendix A to 40 CFR part 63 may be used.

6.2.5.2 GC/ECD. Use a GC/ECD designed to measure SF<sub>6</sub> tracer gas and capable of meeting or exceeding the specifications of this procedure.

6.2.6 Recorder. At a minimum, use a recorder with linear strip chart. An automated data acquisition system (DAS) is recommended.

6.3 Exhaust Gas Flow Rate Measurement. Use equipment specified for EPA Methods 2, 3, and 4 in appendix A to 40 CFR part 60 for measuring flow rate of exhaust gas at the inlet to the control device.

## 7.0 Reagents and Standards

7.1 Tracer Gas. Use SF<sub>6</sub> as the tracer gas. The manufacturer of the SF<sub>6</sub> tracer gas should provide a recommended shelf life for the tracer gas cylinder over which the concentration does not change more than  $\pm 2$  percent from the certified value. A gas mixture of SF<sub>6</sub> diluted with nitrogen should be used; based on experience and calculations, pure SF<sub>6</sub> gas is not necessary to conduct tracer gas testing. Select a concentration and flow rate that is appropriate for the analytical instrument's detection limit, the MML, and the exhaust gas flow rate from the enclosure (see section 8.1.1). You may use a tracer gas other than SF<sub>6</sub> with the prior approval of the EPA Administrator. If you use an approved tracer gas other than SF<sub>6</sub>, all references to SF<sub>6</sub> in this protocol instead refer to the approved tracer gas.

7.2 Calibration Gases. The SF<sub>6</sub> calibration gases required will be dependent on the selected MML and the appropriate span selected for the test. Commercial cylinder gases certified by the manufacturer to be accurate to within 1 percent of the certified label value are preferable, although cylinder gases certified by the manufacturer to 2 percent accuracy are allowed. Additionally, the manufacturer of the SF<sub>6</sub> calibration gases should provide a recommended shelf life for each calibration gas cylinder over which the concentration does not change more than  $\pm 2$  percent from the certified value. Another option allowed by this method is for the tester to obtain high concentration certified cylinder gases and then use a dilution system meeting the requirements of EPA Method 205, 40 CFR part 51, appendix M, to make multi-level calibration gas standards. Low-level, mid-level, and high-level calibration gases will be required. The MML must be above the low-level standard, the high-level standard must be no more than four times the low-level standard, and the mid-level standard must be approximately halfway between the high- and low-level standards. See section 12.1 for an example calculation of this procedure.

Note: If using an FTIR as the analytical instrument, the tester has the option of following the CTS procedures of Method 320 in appendix A to 40 CFR part 63; the calibration standards (and procedures) specified in Method 320 may be used in lieu of the calibration standards and procedures in this protocol.

7.2.1 Zero Gas. High purity nitrogen.

7.2.2 Low-Level Calibration Gas. An SF<sub>6</sub> calibration gas in nitrogen with a concentration equivalent to 20 to 30 percent of the applicable span value.

7.2.3 Mid-Level Calibration Gas. An SF<sub>6</sub> calibration gas in nitrogen with a concentration equivalent to 45 to 55 percent of the applicable span value.

7.2.4 High-Level Calibration Gas. An SF<sub>6</sub> calibration gas in nitrogen with a concentration equivalent to 80 to 90 percent of the applicable span value.

## 8.0 Sample Collection, Preservation, Storage, and Transport

### 8.1 Test Design.

#### 8.1.1 Determination of Minimum Tracer Gas Flow Rate.

8.1.1.1 Determine (via design calculations or measurements) the approximate flow rate of the exhaust gas through the enclosure, actual cubic feet per minute (acfm).

8.1.1.2 Calculate the minimum tracer gas injection rate necessary to assure a detectable SF<sub>6</sub> concentration at the exhaust gas measurement point (see section 12.1 for calculation).

8.1.1.3 Select a flow meter for the injection system with an operating range appropriate for the injection rate selected.

#### 8.1.2 Determination of the Approximate Time to Reach Equilibrium.

8.1.2.1 Determine the volume of the enclosure.

8.1.2.2 Calculate the air changes per minute of the enclosure by dividing the approximate exhaust flow rate (8.1.1.1 above) by the enclosed volume (8.1.2.1 above).

8.1.2.3 Calculate the time at which the tracer concentration in the enclosure will achieve approximate equilibrium. Divide 3 by the air changes per minute (8.1.2.2 above) to establish this time. This is the approximate length of time for the system to come to equilibrium. Concentration equilibrium occurs when the tracer concentration in the enclosure stops changing as a function of time for a constant tracer release rate. Because the press is continuously cycling, equilibrium may be exhibited by a repeating, but stable, cyclic pattern rather than a single constant concentration value. Assure sufficient tracer gas is available to allow the system to come to equilibrium, and to sample for a minimum of 20 minutes and repeat the procedure for a minimum of three test runs. Additional test runs may be required based on the results of the DQO and LCL analyses described in 40 CFR part 63, subpart KK, appendix A.

8.1.3 Location of Injection Points. This method requires a minimum of three tracer gas injection points. The injection points should be located within leak prone, volatile organic compound/hazardous air pollutant (VOC/HAP) producing areas around the press, or horizontally within 12 inches of the defined equipment. One potential configuration of the injection points is depicted in Figure 1. The effect of wind, exfiltration through the building envelope, and air flowing through open building doors should be considered when locating tracer gas injection points within the enclosure. The injection points should also be located at a vertical elevation equal to the VOC/HAP generating zones. The injection points should not be located beneath obstructions that would prevent a natural dispersion of the gas. Document the selected injection points in a drawing(s).

8.1.4 Location of Flow Measurement and Tracer Sampling. Accurate CD inlet gas flow rate measurements are critical to the success of this procedure. Select a measurement location meeting the criteria of EPA Method 1 (40 CFR part 60, appendix A), Sampling and Velocity Traverses for Stationary Sources. Also, when selecting the measurement location, consider whether stratification of the tracer gas is likely at the location ( e.g. , do not select a location immediately after a point of air in-leakage to the duct).

8.2 Tracer Gas Release. Release the tracer gas at a calculated flow rate (see section 12.1 for calculation) through a minimum of three injection manifolds located as described above in 8.1.3. The tracer gas delivery lines must be routed into the enclosure and attached to the manifolds without violating the integrity of the enclosure.

### 8.3 Pretest Measurements.

8.3.1 Location of Sampling Point(s). If stratification is not suspected at the measurement location, select a single sample point located at the centroid of the CD inlet duct or at a point no closer to the CD inlet duct walls than 1 meter. If stratification is suspected, establish a "measurement line" that passes through the centroidal area and in the direction of any expected

stratification. Locate three traverse points at 16.7, 50.0 and 83.3 percent of the measurement line and sample from each of these three points during each run, or follow the procedure in section 8.3.2 to verify whether stratification does or does not exist.

8.3.2 Stratification Verification. The presence or absence of stratification can be verified by using the following procedure. While the facility is operating normally, initiate tracer gas release into the enclosure. For rectangular ducts, locate at least nine sample points in the cross section such that the sample points are the centroids of similarly-shaped, equal area divisions of the cross section. Measure the tracer gas concentration at each point. Calculate the mean value for all sample points. For circular ducts, conduct a 12-point traverse (*i.e.*, six points on each of the two perpendicular diameters) locating the sample points as described in 40 CFR part 60, appendix A, Method 1. Perform the measurements and calculations as described above. Determine if the mean pollutant concentration is more than 10 percent different from any single point. If so, the cross section is considered to be stratified, and the tester may not use a single sample point location, but must use the three traverse points at 16.7, 50.0, and 83.3 percent of the entire measurement line. Other traverse points may be selected, provided that they can be shown to the satisfaction of the Administrator to provide a representative sample over the stack or duct cross section.

8.4 CD Inlet Gas Flow Rate Measurements. The procedures of EPA Methods 1–4 (40 CFR part 60, appendix A) are used to determine the CD inlet gas flow rate. Molecular weight (Method 3) and moisture (Method 4) determinations are only required once for each test series. However, if the test series is not completed within 24 hours, then the molecular weight and moisture measurements should be repeated daily. As a minimum, velocity measurements are conducted according to the procedures of Methods 1 and 2 before and after each test run, as close to the start and end of the run as practicable. A velocity measurement between two runs satisfies both the criterion of “after” the run just completed and “before” the run to be initiated. Accurate exhaust gas flow rate measurements are critical to the success of this procedure. If significant temporal variations of flow rate are anticipated during the test run under normal process operating conditions, take appropriate steps to accurately measure the flow rate during the test. Examples of steps that might be taken include: (1) conducting additional velocity traverses during the test run; or (2) continuously monitoring a single point of average velocity during the run and using these data, in conjunction with the pre- and post-test traverses, to calculate an average velocity for the test run.

#### 8.5 Tracer Gas Measurement Procedure.

8.5.1 Calibration Error Test. Immediately prior to the emission test (within 2 hours of the start of the test), introduce zero gas and high-level calibration gas at the calibration valve assembly. Zero and calibrate the analyzer according to the manufacturer's procedures using, respectively, nitrogen and the calibration gases. Calculate the predicted response for the low-level and mid-level gases based on a linear response line between the zero and high-level response. Then introduce the low-level and mid-level calibration gases successively to the measurement system. Record the analyzer responses for the low-level and mid-level calibration gases and determine the differences between the measurement system responses and the predicted responses using the equation in section 12.3. These differences must be less than 5 percent of the respective calibration gas value. If not, the measurement system must be replaced or repaired prior to testing. No adjustments to the measurement system shall be conducted after the calibration and before the drift determination (section 8.5.4). If adjustments are necessary before the completion of the test series, perform the drift checks prior to the required adjustments and repeat the calibration following the adjustments. If multiple electronic ranges are to be used, each additional range must be checked with a mid-level calibration gas to verify the multiplication factor.

Note: If using an FTIR for the analytical instrument, you may choose to follow the pretest preparation, evaluation, and calibration procedures of Method 320 (section 8.0) (40 CFR part 63, appendix A) in lieu of the above procedure.

8.5.2 Response Time Test. Conduct this test once prior to each test series. Introduce zero gas into the measurement system at the calibration valve assembly. When the system output has stabilized, switch quickly to the high-level calibration gas. Record the time from the concentration change to the measurement system response equivalent to 95 percent of the step change. Repeat the test three times and average the results.

8.5.3 SF<sub>6</sub> Measurement. Sampling of the enclosure exhaust gas at the inlet to the CD should begin at the onset of tracer gas release. If necessary, adjust the tracer gas injection rate such that the measured tracer gas concentration at the CD inlet is within the spectrometer's calibration range (*i.e.*, between the MML and the span value). Once the tracer gas concentration reaches equilibrium, the SF<sub>6</sub> concentration should be measured using the infrared spectrometer continuously for at least 20 minutes per run. Continuously record (*i.e.*, record at least once per minute) the concentration. Conduct at least three test runs. On the recording chart, in the data acquisition system, or in a log book, make a note of periods of process interruption or cyclic operation such as the cycles of the hot press operation. Table 1 to this appendix summarizes the physical measurements required for the enclosure testing.

Note: If a GC/ECD is used as the analytical instrument, a continuous record (at least once per minute) likely will not be possible; make a minimum of five injections during each test run. Also, the minimum test run duration criterion of 20 minutes applies.

8.5.4 Drift Determination. Immediately following the completion of the test run, reintroduce the zero and mid-level calibration gases, one at a time, to the measurement system at the calibration valve assembly. (Make no adjustments to the measurement system until both the zero and calibration drift checks are made.) Record the analyzer responses for the zero and mid-level calibration gases and determine the difference between the instrument responses for each gas prior to and after the emission test run using the equation in section 12.4. If the drift values exceed the specified limits (section 13), invalidate the test results preceding the check and repeat the test following corrections to the measurement system. Alternatively, recalibrate the test measurement system as in section 8.5.1 and report the results using both sets of calibration data ( *i.e.* , data determined prior to the test period and data determined following the test period). Note: If using an FTIR for the analytical instrument, you may choose to follow the post-test calibration procedures of Method 320 in appendix A to 40 CFR part 63 (section 8.11.2) in lieu of the above procedures.

8.6 Ambient Air Sampling (Optional). Sampling the ambient air surrounding the enclosure is optional. However, taking these samples during the capture efficiency testing will identify those areas of the enclosure that may be performing less efficiently.

8.6.1 Location of Ambient Samples Outside the Enclosure (Optional). In selecting the sampling locations for collecting samples of the ambient air surrounding the enclosure, consider potential leak points, the direction of the release, and laminar flow characteristics in the area surrounding the enclosure. Samples should be collected from all sides of the enclosure, downstream in the prevailing room air flow, and in the operating personnel occupancy areas.

8.6.2 Collection of Ambient Samples (Optional). During the tracer gas release, collect ambient samples from the area surrounding the enclosure perimeter at predetermined location using disposable syringes or some other type of containers that are non-absorbent, inert, and that have low permeability ( *i.e.* , polyvinyl fluoride film or polyester film sample bags or polyethylene, polypropylene, nylon or glass bottles). The use of disposable syringes allows samples to be injected directly into a gas chromatograph. Concentration measurements taken around the perimeter of the enclosure provide evidence of capture performance and will assist in the identification of those areas of the enclosure that are performing less efficiently.

8.6.3 Analysis and Storage of Ambient Samples (Optional). Analyze the ambient samples using an analytical instrument calibrated and operated according to the procedures in this appendix or ASTM E 260 and ASTM E 697. Samples may be analyzed immediately after a sample is taken, or they may be stored for future analysis. Experience has shown no degradation of concentration in polypropylene syringes when stored for several months as long as the needle or syringe is plugged. Polypropylene syringes should be discarded after one use to eliminate the possibility of cross contamination of samples.

9.0 Quality Control

9.1 Sampling, System Leak Check. A sampling system leak check should be conducted prior to and after each test run to ensure the integrity of the sampling system.

9.2 Zero and Calibration Drift Tests.

| Section | Quality control measure          | Effect  |
|---------|----------------------------------|---|
| 8.5.4   | Zero and calibration drift tests | Ensures that bias introduced by drift in the measurement system output during the run is no greater than 3 percent of span. |

10.0 Calibration and Standardization

10.1 Control Device Inlet Air Flow Rate Measurement Equipment. Follow the equipment calibration requirements specified in Methods 2, 3, and 4 (appendix A to 40 CFR part 60) for measuring the velocity, molecular weight, and moisture of the control device inlet air.

10.2 Tracer Gas Injection Rate. A dry gas volume flow meter, mass flow meter, or orifice can be used to measure the tracer gas injection flow rate. The selected flow measurement device must have an accuracy of greater than  $\pm 5$  percent at the field operating range. Prior to the test, verify the calibration of the selected flow measurement device using either a wet test meter, spirometer, or liquid displacement meter as the calibration device. Select a minimum of two flow rates to bracket the expected field operating range of the flow meter. Conduct three calibration runs at each of the two selected flow rates. For each run, note the exact quantity of gas as determined by the calibration standard and the gas volume indicated by the flow meter. For each flow rate, calculate the average percent difference of the indicated flow compared to the calibration standard.

10.3 Spectrometer. Follow the calibration requirements specified by the equipment manufacturer for infrared spectrometer measurements and conduct the pretest calibration error test specified in section 8.5.1. Note: if using an FTIR analytical instrument see Method 320, section 10 (appendix A to 40 CFR part 63).

10.4 Gas Chromatograph. Follow the pre-test calibration requirements specified in section 8.5.1.

10.5 Gas Chromatograph for Ambient Sampling (Optional). For the optional ambient sampling, follow the calibration requirements specified in section 8.5.1 or ASTM E 260 and E 697 and by the equipment manufacturer for gas chromatograph measurements.

#### 11.0 Analytical Procedures

The sample collection and analysis are concurrent for this method (see section 8.0).

#### 12.0 Calculations and Data Analysis

12.1 Estimate MML and Span. The MML is the minimum measurement level. The selection of this level is at the discretion of the tester. However, the MML must be higher than the low-level calibration standard, and the tester must be able to measure at this level with a precision of  $\leq 10$  percent. As an example, select the MML as 10 times the instrument's published detection limit. The detection limit of one instrument is 0.01 parts per million by volume (ppmv). Therefore, the MML would be 0.10 ppmv. Select the low-level calibration standard as 0.08 ppmv. The high-level standard would be four times the low-level standard or 0.32 ppmv. A reasonable mid-level standard would then be 0.20 ppmv (halfway between the low-level standard and the high-level standard). Finally, the span value would be approximately 0.40 ppmv (the high-level value is 80 percent of the span). In this example, the following MML, calibration standards, and span values would apply:

MML = 0.10 ppmv

Low-level standard = 0.08 ppmv

Mid-level standard = 0.20 ppmv

High-level standard = 0.32 ppmv

Span value = 0.40 ppmv

12.2 Estimate Tracer Gas Injection Rate for the Given Span. To estimate the minimum and maximum tracer gas injection rate, assume a worst case capture efficiency of 80 percent, and calculate the tracer gas flow rate based on known or measured parameters. To estimate the minimum tracer gas injection rate, assume that the MML concentration (10 times the IR detection limit in this example) is desired at the measurement location. The following equation can be used to estimate the minimum tracer gas injection rate:

$$((QT-MIN \times 0.8) / Q_E) \times (C_T \div 100) \times 10^6 = MML$$

$$QT-MIN = 1.25 \times MML \times (Q_E / C_T) \times 10^{-4}$$

Where:

QT-MIN= minimum volumetric flow rate of tracer gas injected, standard cubic feet per minute (scfm);

$Q_E$  = volumetric flow rate of exhaust gas, scfm;

$C_T$  = Tracer gas ( $SF_6$ ) concentration in gas blend, percent by volume;

MML = minimum measured level, ppmv =  $10 \times IR_{DL}$  (for this example);

$IR_{DL}$  = IR detection limit, ppmv.

Standard conditions: 20 °C, 760 millimeters of mercury (mm Hg).

To estimate the maximum tracer gas injection rate, assume that the span value is desired at the measurement location. The following equation can be used to estimate the maximum tracer gas injection rate:

$$((Q_T - MAX \times 0.8) / Q_E) \times (C_T \div 100) \times 10^6 = \text{span value}$$

$$Q_T - MAX = 1.25 \times \text{span value} \times (Q_E / C_T) \times 10^{-4}$$

Where:

$Q_T - MAX$  = maximum volumetric flow rate of tracer gas injected, scfm;

Span value = instrument span value, ppmv.

The following example illustrates this calculation procedure:

Find the range of volumetric flow rate of tracer gas to be injected when the following parameters are known:

$Q_E$  = 60,000 scfm (typical exhaust gas flow rate from an enclosure);

$C_T$  = 2 percent  $SF_6$  in nitrogen;

$IR_{DL}$  = 0.01 ppmv (per manufacturer's specifications);

MML =  $10 \times IR_{DL}$  = 0.10 ppmv;

Span value = 0.40 ppmv;

$Q_T$  = ?

Minimum tracer gas volumetric flow rate:

$$Q_T - MIN = 1.25 \times MML \times (Q_E / C_T) \times 10^{-4}$$

$$Q_T - MIN = 1.25 \times 0.10 \times (60,000 / 2) \times 10^{-4} = 0.375 \text{ scfm}$$

Maximum tracer gas volumetric flow rate:

$$Q_T - MAX = 1.25 \times \text{span value} \times (Q_E / C_T) \times 10^{-4}$$

$$Q_T - MAX = 1.25 \times 0.40 \times (60,000 / 2) \times 10^{-4} = 1.5 \text{ scfm}$$

In this example, the estimated total volumetric flow rate of the two percent  $SF_6$  tracer gas injected through the manifolds in the enclosure lies between 0.375 and 1.5 scfm.

12.3 Calibration Error. Calculate the calibration error for the low-level and mid-level calibration gases using the following equation:

$$\text{Err} = \frac{|C_{\text{std}} - C_{\text{meas}}|}{C_{\text{std}}} \times 100$$

Where:

Err = calibration error, percent;

$C_{\text{std}}$  = low-level or mid-level calibration gas value, ppmv;

$C_{\text{meas}}$  = measured response to low-level or mid-level concentration gas, ppmv.

12.4 Calibration Drift. Calculate the calibration drift for the zero and low-level calibration gases using the following equation:

$$D = \frac{|C_{\text{initial}} - C_{\text{final}}|}{C_{\text{span}}} \times 100$$

Where:

D = calibration drift, percent;

$C_{\text{initial}}$  = low-level or mid-level calibration gas value measured before test run, ppmv;

$C_{\text{final}}$  = low-level or mid-level calibration gas value measured after test run, ppmv;

$C_{\text{span}}$  = span value, ppmv.

12.5 Calculate Capture Efficiency. The equation to calculate enclosure capture efficiency is provided below:

$$\text{CE} = \left( \frac{\text{SF}_6\text{-CD}}{\text{SF}_6\text{-INJ}} \right) \times 100$$

Where:

CE = capture efficiency;

SF<sub>6</sub>-CD = mass of SF<sub>6</sub> measured at the inlet to the CD;

SF<sub>6</sub>-INJ = mass of SF<sub>6</sub> injected from the tracer source into the enclosure.

Calculate the CE for each of the initial three test runs. Then follow the procedures outlined in section 12.6 to calculate the overall capture efficiency.

12.6 Calculate Overall Capture Efficiency. After calculating the capture efficiency for each of the initial three test runs, follow the procedures in 40 CFR part 63, subpart KK, appendix A, to determine if the results of the testing can be used in determining compliance with the requirements of the rule. There are two methods that can be used: the DQO and LCL methods. The DQO method is described in section 3 of 40 CFR part 63, subpart KK, appendix A, and provides a measure of the precision of the capture efficiency testing conducted. Section 3 of 40 CFR part 63, subpart KK, appendix A, provides an example calculation using results from a facility. If the DQO criteria are met using the first set of three test runs, then the facility can use the average capture efficiency of these test results to determine the capture efficiency of the enclosure. If the DQO criteria are not met, then the facility can conduct another set of three runs and run the DQO analysis again using the results from the six runs *OR* the facility can elect to use the LCL approach.

The LCL method is described in section 4 of 40 CFR part 63, subpart KK, appendix A, and provides sources that may be performing much better than their regulatory requirement, a screening option by which they can demonstrate compliance. The LCL approach compares the 80 percent lower confidence limit for the mean measured CE value to the applicable regulatory

requirement. If the LCL capture efficiency is higher than the applicable limit, then the facility is in initial compliance and would use the LCL capture efficiency as the capture efficiency to determine compliance. If the LCL capture efficiency is lower than the applicable limit, then the facility must perform additional test runs and re-run the DQO or LCL analysis.

13.0 Method Performance

13.1 Measurement System Performance Specifications.

13.1.1 Zero Drift. Less than  $\pm 3$  percent of the span value.

13.1.2 Calibration Drift. Less than  $\pm 3$  percent of the span value.

13.1.3 Calibration Error. Less than  $\pm 5$  percent of the calibration gas value.

13.2 Flow Measurement Specifications. The mass flow, volumetric flow, or critical orifice control meter used should have an accuracy of greater than  $\pm 5$  percent at the flow rate used.

13.3 Calibration and Tracer Gas Specifications. The manufacturer of the calibration and tracer gases should provide a recommended shelf life for each calibration gas cylinder over which the concentration does not change more than  $\pm 2$  percent from the certified value.

14.0 Pollution Prevention [Reserved]

15.0 Waste Management [Reserved]

16.0 References

1. 40 CFR part 60, appendix A, EPA Method 1—Sample and velocity traverses for stationary sources.
2. 40 CFR part 60, appendix A, EPA Method 2—Determination of stack gas velocity and volumetric flow rate.
3. 40 CFR part 60, appendix A, EPA Method 3—Gas analysis for the determination of dry molecular weight.
4. 40 CFR part 60, appendix A, EPA Method 4—Determination of moisture content in stack gases.
5. SEMI F15–93 Test Method for Enclosures Using Sulfur Hexafluoride Tracer Gas and Gas Chromatography.
6. Memorandum from John S. Seitz, Director, Office of Air Quality Planning and Standards, to EPA Regional Directors, Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions, February 7, 1995. (That memorandum contains an attached technical document from Candace Sorrell, Emission Monitoring and Analysis Division, “Guidelines for Determining Capture Efficiency,” January 9, 1994).
7. Technical Systems Audit of Testing at Plant “C,” EPA–454/R–00–26, May 2000.
8. Material Safety Data Sheet for SF<sub>6</sub>Air Products and Chemicals, Inc. Website: [www3.airproducts.com](http://www3.airproducts.com). October 2001.

17.0 Tables, Diagrams, Flowcharts, and Validation Data

**Table 1 to Appendix A—Summary of Critical Physical Measurements for Enclosure Testing**

| Measurement | Measurement instrumentation | Measurement frequency | Measurement site |
|-------------|-----------------------------|-----------------------|------------------|
|-------------|-----------------------------|-----------------------|------------------|

|  |   |   |  |
|--|---|---|--|
| Tracer gas injection rate                        | Mass flow meter, volumetric flow meter or critical orifice  | Continuous  | Injection manifolds (cylinder gas).                          |
| Tracer gas concentration at control device inlet | Infrared Spectrometer or GC/ECD   | Continuous (at least one reading per minute) for a minimum of 20 minutes      | Inlet duct to the control device (outlet duct of enclosure). |
| Volumetric air flow rate                         | EPA Methods 1, 2, 3, 4 (40 CFR part 60, appendix A)<br><ul style="list-style-type: none"> <li>• Velocity sensor (Manometer/Pitot tube)</li> <li>• Thermocouple</li> </ul> | Each test run for velocity (minimum); Daily for moisture and molecular weight | Inlet duct to the control device (outlet duct of enclosure). |
|  | <ul style="list-style-type: none"> <li>• Midget Impinger sampler</li> </ul>   |   |  |
|  | <ul style="list-style-type: none"> <li>• Orsat or Fyrite</li> </ul>   |   |  |

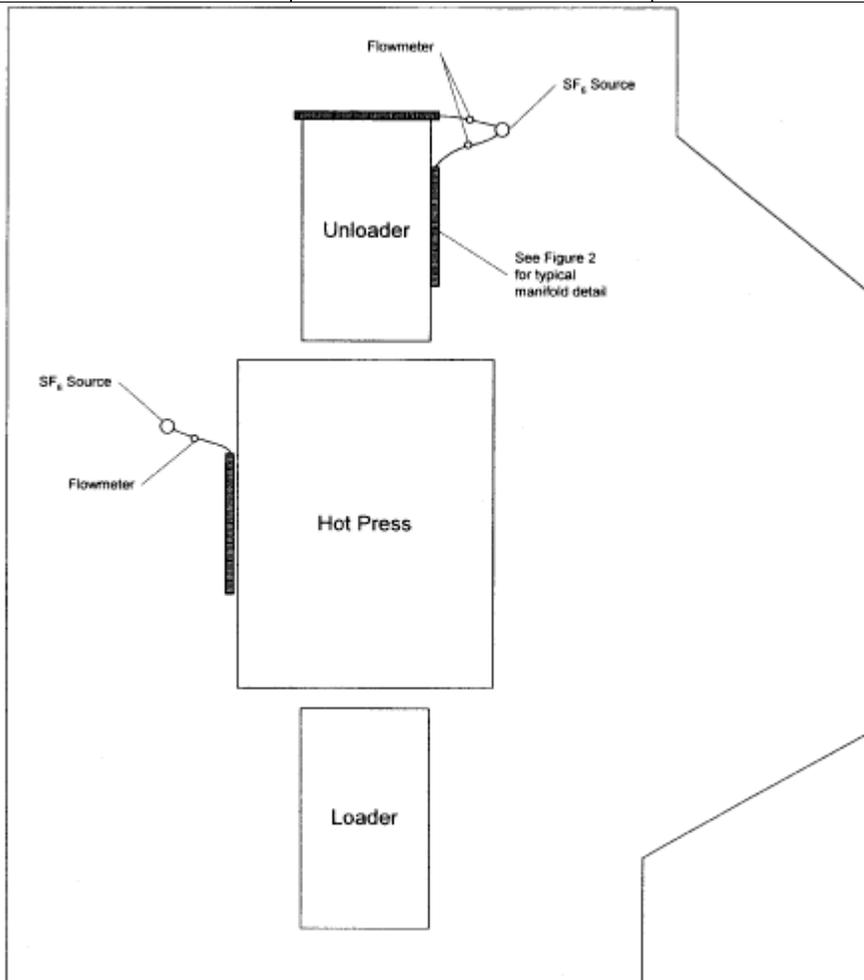
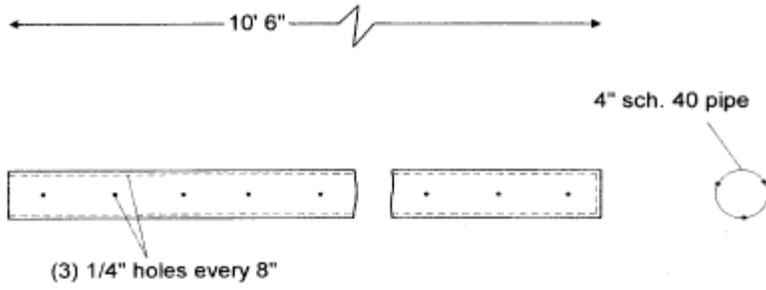


Figure 1. Plan view schematic of hot press and enclosure showing SF<sub>6</sub> manifold locations.



**Elevation**

Figure 2. Schematic detail for manifold system for SF<sub>6</sub> injection.

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

Technical Support Document (TSD) for a  
Part 70 Minor Source Modification and Significant Permit Modification

**Source Description and Location**

Source Name: MasterBrand Cabinets, Inc.  
 Source Location: 614 West Third Street, Ferdinand, Indiana 47532  
 County: Dubois  
 SIC Code: 2434  
 Operation Permit No.: T037-26606-00051  
 Operation Permit Issuance Date: April 23, 2009  
 Minor Source Modification No.: 037-29721-00051  
 Significant Permit Modification No.: 037-29730-00051  
 Reviewer: APT

The Office of Air Quality (OAQ) has reviewed a Part 70 permit modification application from MasterBrand Cabinets, Inc., relating to the addition of one (1) woodworking facility with a baghouse for particulate control, and the modification of two (2) existing surface coating booths.

**Existing Approvals**

Since the issuance of Part 70 Operating Permit Renewal No.: 037-26606-00051, on April 23, 2009, the source has since received the following approvals:

- (a) Significant Permit Modification No.: 037-28900-00051, issued on June 10, 2010.

**County Attainment Status**

The source is located in Dubois County.

| Pollutant        | Designation   |
|------------------|---|
| SO <sub>2</sub>  | Better than national standards.   |
| CO               | Unclassifiable or attainment effective November 15, 1990.                                   |
| O <sub>3</sub>   | Unclassifiable or attainment effective June 15, 2004, for the 8-hour standard. <sup>1</sup> |
| PM <sub>10</sub> | Unclassifiable effective November 15, 1990.   |
| NO <sub>2</sub>  | Cannot be classified or better than national standards.                                     |
| Pb               | Not designated.   |

<sup>1</sup>Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.  
 Basic nonattainment designation effective federally April 5, 2005, for PM<sub>2.5</sub>.

- (a) **Ozone Standards**  
 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 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 and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Dubois County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005, the Indiana Attorney General's

Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM<sub>2.5</sub>, promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

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

### Fugitive Emissions

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD and Part 70 Permit applicability.

### Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

| Pollutant              | Emissions (ton/yr) |
|------------------------|--------------------|
| PM                     | > 250              |
| PM <sub>10</sub>       | > 250              |
| PM <sub>2.5</sub>      | > 250              |
| SO <sub>2</sub>        | < 100              |
| VOC                    | > 250              |
| CO                     | < 100              |
| NO <sub>x</sub>        | < 100              |
| HAPs Single / Combined | > 10 / > 25        |

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because at least one (1) regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major stationary source under nonattainment new source review rules (326 IAC 2-1.1-5), since PM<sub>2.5</sub> is emitted at a rate of 100 tons per year or more.
- (c) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

### Description of Proposed Modification

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), has reviewed a modification application submitted by MasterBrand Cabinets, Inc., on September 23, 2010, relating to the addition of new woodworking equipment, collectively identified as WW-8, with one (1) new baghouse, identified as BH-8. In addition, the source proposes to replace the one (1) manual

spray booth, identified as STB-20, with a new automated spray booth utilizing the same finish materials. The source also proposes to replace the one (1) UV-cured vacuum coater booth, identified as UVC-1, with a new UV-cured mist coater booth. The following is a description of the proposed emission units and pollution control devices to be added to this existing source:

- (a) One (1) woodworking cell, identified as WW-8, approved in 2010 for construction, controlled by one (1) 35,000 cubic feet per minute baghouse, identified as BH-8, and exhausting either internally or to stack BHS-8.
- (b) One (1) UV-cured mist coater booth to coat wood molding with a capacity of 378 wood moldings per hour, identified as UVMC-1, approved in 2010 for construction, and exhausting to stack UVS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (c) One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

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

The source has removed the following emission units:

##### Insignificant Activities

- (a) Emission units with PM and PM<sub>10</sub> emissions less than five (5) tons per year, SO<sub>2</sub>, NO<sub>x</sub>, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:
  - (1) One (1) topcoat storage tank with a capacity of 3,000 gallons; and
  - (2) One (1) sealer storage tank with a capacity of 3,000 gallons.
- (b) One (1) end coat booth, identified as ECB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack ECS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (c) Two (2) edge coaters using roll coating, identified as ECR-1 and ECR-2, Under 40 CFR 63, Subpart JJ, these are affected facilities that are engaged in the manufacture of wood furniture or wood furniture components.

#### **Enforcement Issues**

There are no pending enforcement actions related to this modification.

#### **Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**Air Pollution Control Justification as an Integral Part of the Process**

In October 1993, a Final Order Granting Summary Judgment was signed by Administrative Law Judge (“ALJ”) Garrettson, resolving an appeal filed by Kimball Hospitality Furniture, Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833), related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, potential emissions for particulate matter were calculated after consideration of the controls for Part 70 purposes.

**Permit Level Determination – Part 70**

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| Process Description                                       | Criteria Pollutants |                  |                   |                 |       |             |       |
|---|---------------------|------------------|-------------------|-----------------|-------|-------------|-------|
|   | PM                  | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | NOx   | VOC         | CO    |
| <b>Surface Coating Booths:</b>                            |                     |                  |                   |                 |       |             |       |
| New booth - STB-20  | 2.41                | 2.41             | 2.41              | -----           | ----- | 2.82        | ----- |
| New booth - UVMC  | 0.26                | 0.26             | 0.26              | -----           | ----- | 0.002       | ----- |
| <b>Wood Working</b>                                       |                     |                  |                   |                 |       |             |       |
| *New Unit - WW-8  | 2.84                | 2.84             | 2.84              | -----           | ----- | -----       | ----- |
| <b>TOTAL Source-wide PTE Increase due to Modification</b> | <b>5.51</b>         | <b>5.51</b>      | <b>5.51</b>       | -----           | ----- | <b>2.82</b> | ----- |

PM<sub>2.5</sub> emissions are assumed to equal PM<sub>10</sub> emissions. PM<sub>10</sub> emissions are assumed to equal PM emissions.  
 \* For Part 70 purposes, potential emissions for particulate matter from the woodworking operations were calculated after consideration of the controls.

- (a) Pursuant to 326 IAC 2-7-10.5(d)(3), this modification is considered a minor source modification because the modification has a potential to emit less than twenty-five (25) tons per year and equal to or greater than five (5) tons per year of either particulate matter (PM) or particulate matter less than ten (10) microns (PM<sub>10</sub>).
- (b) This modification will be incorporated into the Part 70 Operating Permit Renewal through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because the modification does not qualify as a minor permit modification. Pursuant to 326 IAC 2-7-12(b)(1)(C), modifications that require a case-by-case determination of an emission limitation do not qualify as minor permit modifications.

**Permit Level Determination – PSD and Nonattainment NSR**

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

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

| Process / Emission Unit                    | PM         | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | VOC        | CO         |
|--|------------|------------------|-------------------|-----------------|-----------------|------------|------------|
| Surface Coating, STB-20                    | 2.41       | 2.41             | 2.41              | -----           | -----           | -----      | -----      |
| Surface Coating, UVMC-1                    | 0.26       | 0.26             | 0.26              | -----           | -----           | -----      | -----      |
| Wood working, WW-8                         | 284*       | 284*             | 284*              | -----           | -----           | -----      | -----      |
| <b>Total for Modification</b>              | 286.7      | 286.7            | 286.7             | -----           | -----           | -----      | -----      |
| <b>PSD Significant Level</b>               | <b>25</b>  | <b>15</b>        | <b>---</b>        | <b>40</b>       | <b>40</b>       | <b>40</b>  | <b>100</b> |
| <b>Nonattainment NSR Significant Level</b> | <b>---</b> | <b>---</b>       | <b>10</b>         | <b>---</b>      | <b>---</b>      | <b>---</b> | <b>---</b> |

\*The PTE of woodworking PM/PM<sub>10</sub> before controls was considered, because the integral definition does not apply under PSD. The PTE of woodworking PM<sub>2.5</sub> before controls was considered, because the integral definition does not apply under Nonattainment NSR.

- (a) Since this source is considered major for 326 IAC 2-2, PSD and the unrestricted potential to emit of this modification is greater than twenty-five (25) tons of PM per year, and fifteen (15) tons of PM<sub>10</sub> per year, this source has elected to limit the potential to emit of this modification for PM and PM<sub>10</sub>.
- (b) Since this modification has potential emissions of PM<sub>2.5</sub> greater than and ten (10) tons per year, this source is subject to 326 IAC 2-1.1-5, Nonattainment NSR review. The source has elected to limit the potential to emit of this modification for PM<sub>2.5</sub>.
  - (1) The PM emissions from baghouse BH-8 shall not exceed 5.0 lbs/hr.
  - (2) The PM<sub>10</sub> emissions from baghouse BH-8 shall not exceed 2.8 lbs/hr.
  - (3) The PM<sub>2.5</sub> emissions from baghouse BH-8 shall not exceed 1.66 lbs/hr.

Compliance with these emission limits for WW-8, exhausting to baghouse (BH-8), through stack BHS-8, combined with the unlimited potential emissions from the surface coating units STB-20 and UVMC-1, will ensure that the potential to emit from this modification (SPM 037-29730-00051) is less than twenty-five (25) tons of PM per year, fifteen (15) tons of PM<sub>10</sub> per year, and ten (10) tons of PM<sub>2.5</sub> per year. Therefore, the requirements of 326 IAC 2-2 and 326 IAC 2-1.1-5 are not applicable to this modification.

|   |
|---|
| <b>Federal Rule Applicability Determination</b> |
|---|

- (a) **New Source Performance Standards (NSPS)**  
 There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit for to this proposed modification.
- (b) **National Emission Standards for Hazardous Air Pollutants (NESHAPs)**  
 There are no new National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 20 and 40 CFR Part 63) included in this permit for this proposed modification, because the source is already subject to the requirements of 40 CFR 63, Subpart JJ, National Emission Standards for Wood Furniture Manufacturing Operations. The new surface coating units identified as UVMC-1 and STB-20, are subject to the following portions of 40 CFR 63, Subpart JJ:

Pursuant to 40 CFR 63, Subpart JJ, the wood furniture coating operations are subject to the following portions of 40 CFR 63, Subpart JJ:

- (1) 40 CFR 63.800 (a)(b)(c)(d)(e)(f)(g)
- (2) 40 CFR 63.801 (a)
- (3) 40 CFR 63.802 (a)
- (4) 40 CFR 63.803 (a)(b)(c)(d)(e)(f)(g)(h)(i)(j)(k)(l)
- (5) 40 CFR 63.804 (a)(b)(c)(f)(g)
- (6) 40 CFR 63.805 (a)(b)(c)(d)(e)
- (7) 40 CFR 63.806 (a)(b)(c)(d)(e)(f)(g)(h)(i)(j)
- (8) 40 CFR 63.807 (a)(b)(c)(d)(e)
- (9) 40 CFR 63.808 (a)(b)(c)
- (10) Table 1
- (11) Table 2
- (12) Table 3
- (13) Table 4
- (14) Table 5
- (15) Table 6

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

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

- (1) has a potential to emit before controls equal to or greater than the Part 70 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.

Pursuant to 40 CFR Part 64.1, the definition of inherent process equipment is "equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Equipment that must be operated at an efficiency higher than that achieved during normal process operations in order to comply with the applicable emission limitation or standard is not inherent process equipment. For the purposes of this part, inherent process equipment is not considered subject to CAM."

- (1) The one (1) baghouse, identified as BH-8, controlling particulate emissions from the one (1) wood working process identified as WW-8, would be installed if no air quality regulations were in place to provide for employee safety and property protection, based on Occupational Safety and Health Administration (OSHA) Regulations applicable to the source. After review of the criteria set forth by the U.S. EPA to make the determination between air pollution control equipment and process equipment, this classification of the baghouse as process equipment is justified. Therefore, the one (1) baghouse identified as BH-8 meets the definition of inherent process equipment, and the woodworking operation, identified as WW-8, exhausting through stack BHS-8, is not subject to the requirements of Compliance Assurance Monitoring (CAM).

The surface coating booths being added to the source as part of this modification, identified as STB-20 and UVMC-1, are not subject to subject to CAM pursuant to 40 CFR 64.2. Neither unit has potential emissions greater than or equal to Part 70 thresholds. Therefore, the requirements of 40 CFR 64.2, Compliance Assurance Monitoring (CAM) are not included into the permit for these units as part of this modification.

### State Rule Applicability Determination

#### 326 IAC 2-1.1-5 (Nonattainment New Source Review)

Nonattainment New Source Review applicability is discussed under the Permit Level Determination – PSD and Nonattainment NSR section.

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

PSD applicability is discussed under the Permit Level Determination – PSD and Nonattainment NSR section.

#### 326 IAC 2-4.1 (New Source Toxic Control)

The potential to emit HAP from each of the new units (STB-20, UVMC-1, and WW-8) is less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Furthermore, the one (1) surface coating booth identified as STB-20 and the one (1) UV-cured mist coater booth identified as UVMC-1 are specifically regulated by NESHAP 40 CFR 63, Subpart JJ, which was issued pursuant to Section 112(d) of the CAA. Therefore, these units are excluded from the requirements of 326 IAC 2-4.1.

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

The new units (STB-20, UVMC-1, and WW-8) are not subject to the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) because they are subject to the requirements of 326 IAC 6.5 (Particulate Matter Limitations Except Lake County).

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

Pursuant to 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County), this source is subject to the requirements of this rule because the source has the potential to emit one hundred (100) tons or more or actual emissions of ten (10) tons or more of particulate matter, and it is located in Dubois County. Therefore, particulate matter emissions from the new units identified as, STB-20, UVMC-1, and WW-8 shall each not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf) of exhaust air.

- (a) In order to comply with this limit, dry particulate filters shall be used at the one (1) surface coating booth, identified as STB-20, and the one (1) baghouse, identified as BH-8, shall be used to control particulate emissions from the one (1) woodworking unit, identified as WW-8.
- (b) The one (1) UV-cured mist coater, identified as UVMC-1 is able to comply with this limit without the use of external controls.

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

- (a) The one (1) UV-cured mist coater, identified as UVMC-1, is not subject to 326 IAC 8-1-6 (New Facilities; General Reduction Requirements), because the booth does not have potential emissions of twenty-five (25) tons of VOC or greater per year.
- (b) The one (1) surface coating booth, identified as STB-20, does not have potential emissions of twenty-five (25) tons of VOC or greater per year and it is subject to the requirements of 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating). Therefore, the one (1) surface coating booth, identified as STB-20, is not subject to the requirements of 326 IAC 8-1-6, pursuant to 326 IAC 8-1-6(3)(A).

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

- (a) The one (1) surface coating booth identified as STB-20 is subject to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating) because this facility will be constructed after July 1, 1990, and it has actual emissions greater than fifteen (15) pounds of VOC per day.

Pursuant to 326 IAC 8-2-12, the surface coating applied to wood furniture and cabinets shall utilize one (1) 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.

- (b) The one (1) UV-cured mist coater, identified as UVMC-1, is not subject to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating) because this facility does not have the potential to emit greater than fifteen (15) pounds of VOC per day.

### 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.

Changes to the compliance determination and monitoring requirements are detailed in the Proposed Changes section of this document.

### Proposed Changes

The changes listed below have been made to Part 70 Operating Permit Renewal No. 037-26606-00051. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

IDEM has modified the language for several standard Title V permitting B and C Conditions, and some of these standard language changes have affected other sections of the permit, OAQ Changes No. 1 through 20 are the result of these language updates. The Table of Contents has been updated accordingly and is not shown in detail herein. Changes to the D Sections of the permit that have resulted from these standard language updates will be shown in sequence with the proposed modifications to these sections.

#### OAQ Change No. 1:

- (a) To minimize future amendments to the issued Part 70 Permits, IDEM has removed all references to the source mailing address throughout the permit. IDEM will continue to maintain records of the mailing address.

- (b) To minimize redundancy, the last sentence dealing with the need for certification from the reporting forms has been removed because the conditions requiring the forms already address this issue.
- (c) The phrase "of this permit" has been added to the paragraph describing permit deviations of the Quarterly Deviation and Compliance Monitoring Report form to match the underlying rule.

**SECTION A**

**SOURCE SUMMARY**

\* \* \*

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

The Permittee owns and operates a stationary kitchen and bath cabinet manufacturing operation.

Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
~~Mailing Address: 614 West Third Street, Ferdinand, Indiana 47532~~  
General Source Phone Number: 812-639-2940  
SIC Code: 2434  
County Location: Dubois  
Source Location Status: Nonattainment for PM<sub>2.5</sub> standard  
Attainment for all other criteria pollutants  
Source Status: Part 70 Operating Permit Program  
Major Source, under PSD Rules  
Major Source, Section 112 of the Clean Air Act  
Not 1 of 28 Source Categories

**Reporting Forms**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH, ~~OFFICE OF AIR QUALITY~~  
PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: MasterBrand Cabinets, Inc.  
Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
~~Mailing Address: P.O. Box 420, Jasper, IN 47547~~  
Part 70 Permit No.: T037-26606-00051

\* \* \*

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH, ~~OFFICE OF AIR QUALITY~~  
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.  
Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
~~Mailing Address: P.O. Box 420, Jasper, IN 47547~~  
Part 70 Permit No.: T037-26606-00051

\*\*\*

~~A certification is not required for this report.~~

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH, ~~OFFICE OF AIR QUALITY~~**

**Part 70 Quarterly Report**

Source Name: MasterBrand Cabinets, Inc.  
Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
~~Mailing Address: P.O. Box 420, Jasper, IN 47547~~  
Part 70 Permit No.: T037-26606-00051

\*\*\*

~~Attach a signed certification to complete this report.~~

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH, ~~OFFICE OF AIR QUALITY~~  
PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: MasterBrand Cabinets, Inc.  
Source Address: 614 West Third Street, Ferdinand, Indiana 47532  
~~Mailing Address: P.O. Box 420, Jasper, IN 47547~~  
Part 70 Permit No.: T037-26606-00051

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements **of this permit**, 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".

\* \* \*

~~Attach a signed certification to complete this report.~~

### **Section B Changes**

- OAQ Change No. 2:** 326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM is revising all instances of "the responsible official" to read "a responsible official."
- OAQ Change No. 3:** IDEM added a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans developed. IDEM has also decided to clarify other aspects of Section B - Preventive Maintenance Plan.
- OAQ Change No. 4:** The phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timelines have been switched to "no later than" or "not later than" except for the timelines for Title V Fee, Emergency Provisions, Continuous Compliance Plan, and Revocation of Permits, because the underlying rules state "within."
- OAQ Change No. 5:** To clarify that Section B - Certification only states what a certification must be, IDEM has revised the condition.
- OAQ Change No. 6:** IDEM, OAQ revised Section B - Emergency Provisions to delete paragraph (h). 326 IAC 2-7-5(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.
- OAQ Change No. 7:** Having a separate condition for the reporting of deviations is unnecessary. Therefore, IDEM has removed Section B - Deviation from Permit Requirements and Conditions and added the requirements of that condition to Section C - General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM already states the timeline and certification needs of each report in the condition requiring the report. Because this source is Major for PSD, Subparagraph (g)(4) has been revised to match the underlying rule language.
- OAQ Change No. 8:** IDEM, OAQ will state which rule establishes the authority to set a deadline for the Permittee to submit additional information. Therefore, Section B - Permit Renewal has been revised.
- OAQ Change No. 9:** IDEM, OAQ will state that no notice is required for approved changes in Section B - Permit Revision Under Economic Incentives and Other Programs.

### **Section C Changes**

- OAQ Change No. 10:** 326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM is revising all instances of "the responsible official" to read "a responsible official."
- OAQ Change No. 11:** IDEM added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.

- OAQ Change No. 12:** IDEM revised Section C - Incineration to more closely reflect the two (2) underlying rules.
- OAQ Change No. 13:** IDEM removed the first paragraph of Section C - Performance Testing because specific testing conditions elsewhere in the permit will specify the timeline and procedures.
- OAQ Change No. 14:** IDEM revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed because other conditions already address recordkeeping. The voice of the condition has been changed to clearly indicate that it is the Permittee that must follow the requirements of the condition.
- OAQ Change No. 15:** IDEM removed Section C - Monitoring Methods. The conditions that require the monitoring or testing state what methods shall be used.
- OAQ Change No. 16:** IDEM revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.
- OAQ Change No. 17:** IDEM revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.
- OAQ Change No. 18:** Paragraph (b) of Section C - Emission Statement has been removed. It was duplicative of the requirement in Section C - General Reporting Requirements.
- OAQ Change No. 19:** The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.
- OAQ Change No. 20:** IDEM simplified the referencing in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1.

The previous version of the B and C Sections are below in strikethrough to demonstrate their removal, and the updated version of the B and C Sections in bold type follow:

**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, T037-26606-00051, 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 or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).~~

~~(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][IC 13-17-12]~~

~~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) A "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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2254~~

~~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, Compliance and Enforcement Branch, Office of Air Quality upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;  
  
Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865  
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.
- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2254

~~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 T037-26606-00051 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, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)~~

~~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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2254~~

~~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)]~~

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- ~~(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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2254~~

~~(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) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]~~

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

~~Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2254~~

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

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

~~B.19 Permit Revision Under Economic Incentives and Other Programs~~

~~[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]~~

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

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

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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 46204-2254~~

~~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.~~
- ~~(f) — This condition does not apply to emission trades of SO<sub>2</sub> or NO<sub>x</sub> under 326 IAC 21 or 326 IAC 10-4.~~

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

- ~~(a) — A modification, construction, or reconstruction is governed by the requirements of 326 IAC 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]~~

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- ~~(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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2254~~

~~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]~~

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- ~~(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]~~

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~~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.~~

**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 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  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.~~

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

#### C.6 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 and Enforcement Branch, 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.7 ~~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.8 ~~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 or ninety (90) days of initial start up, whichever is later. 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2254

~~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.9 ~~Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]~~**

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

#### **C.10 ~~Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]~~**

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

~~instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.~~

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

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

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

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

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

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

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

~~The ERP does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

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

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

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

~~(f) Upon direct notification by IDEM, 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]~~**

~~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]~~**

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

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

~~(1) initial inspection and evaluation;~~

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

- ~~(3) — any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.~~
- ~~(c) — A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - ~~(1) — monitoring results;~~
  - ~~(2) — review of operation and maintenance procedures and records; and/or~~
  - ~~(3) — inspection of the control device, associated capture system, and the process.~~~~
- ~~(d) — Failure to take reasonable response steps shall be considered a deviation from the permit.~~
- ~~(e) — The Permittee shall maintain the following records:
  - ~~(1) — monitoring data;~~
  - ~~(2) — monitor performance data, if applicable; and~~
  - ~~(3) — corrective actions taken.~~~~

~~C.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(a)(1), the Permittee shall submit by July 1 of each year 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(e) 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 46204-2254

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 2-2][326 IAC 2-3]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
- (i) Baseline actual emissions;
- (ii) Projected actual emissions;
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

~~(d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:~~

~~(1) 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~~

~~(2) 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 2-2]~~

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~~(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 and Enforcement Branch, 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 recordkeeping provisions of (d) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (II)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:~~

~~(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping~~

~~Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and~~

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

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

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

~~(2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.~~

~~(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(e)(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 46204-2254

~~(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**

~~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.~~

### **New B and C Sections**

#### **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)]**

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- (a) This permit, T037- 26606- 00051, 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 or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (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]**

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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] [IC 13-17-12]**

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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)]**

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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)]**

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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)]**

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- (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. 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)]**

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- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
  - (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and

- (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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- (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 and Enforcement 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.
- (d) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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]**

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(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(c) 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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) 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]**

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- (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, or Southeast Regional Office and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865  
Southeast Regional Office phone: (812) 358-2027; fax: (812) 358-2058  
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304

- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

- (A) A description of the emergency;

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

**(C) Corrective actions taken.**

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.**

**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 T037- 26606- 00051 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**
  - (4) 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, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)**

**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 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]**

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- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.**

**B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12] [40 CFR 72]**

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- (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) **Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]**
- (c) **Any application requesting an amendment or modification of this permit shall be submitted to:**  
  
**Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251**  
  
**Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).**
- (d) **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.18 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 or notice 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.19 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  
Permit Administration and Support Section, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.**
- (f) **This condition does not apply to emission trades of SO<sub>2</sub> or NO<sub>x</sub> under 326 IAC 21 or 326 IAC 10-4.**

**B.20 Source Modification Requirement [326 IAC 2-7-10.5]**

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

**B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]**

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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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251**

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.23 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.24 Advanced Source Modification Approval [326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]**

- (a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

**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 5-1-1 (Applicability) and 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.

##### C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

##### 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 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  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 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 that meets the requirements of 326 IAC 2-7-6(1) by a "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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.**

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

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

- 
- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:**

**Indiana Department of Environmental Management  
Compliance and Enforcement Branch, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.7 Compliance Requirements [326 IAC 2-1.1-11]

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

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Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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 and Enforcement 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.9 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale

such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

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

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

**C.10 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 shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (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.11 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.12 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

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Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.

- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

**C.13 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.14 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]**

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year 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);
- (3) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years

as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

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

    - (A) A description of the project.
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;
      - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
      - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

  - (1) 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

- (2) 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.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]**

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- (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 except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, 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) 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.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than 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 (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

- (g) 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.17 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 applicable standards for recycling and emissions reduction.

**Modification No. 1** The new or modified units have been incorporated into the Emission Units and Pollution Control Equipment Summary, Section A.2, and the Specifically Regulated Insignificant Activities, Section A.3, of the permit as follows:

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

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

\* \* \*

- (b) Woodworking equipment controlled by baghouses, including:

\* \* \*

- (8) One (1) woodworking cell, identified as WW-8, approved in 2010 for construction, controlled by one (1) 35,000-cubic feet per minute baghouse, identified as BH-8, and exhausting either internally or to stack BHS-8.

\* \* \*

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

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

\* \* \*

- (d) ~~Two (2)~~ **One (1) manual** spray booths, identified as STB-19 and ~~STB-20~~, each constructed in 2003, ~~each~~ with a maximum capacity of 220 units per hour, each with particulate emissions controlled by a dry filter, and exhausting through stacks ~~STS-5 and STS-6~~. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

\* \* \*

- ~~(g) One (1) end coat booth, identified as ECB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack ECS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.~~

\* \* \*

- ~~(h)~~ **(k) One (1) UV-cured vacuum mist** coater booth to coat wood molding with a capacity of ~~300~~ **378** wood moldings per hour, identified as ~~UVC-1~~ **UVMC-1**, ~~constructed in 1994~~ **approved in 2010 for construction**, and exhausting to stacks UVS-1. and UVS-2. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.

- ~~(m) Two (2) edge coaters using roll coating, identified as ECR-1 and ECR-2, Under 40 CFR 63, Subpart JJ, these are affected facilities that are engaged in the manufacture of wood furniture or wood furniture components.~~

- (l) One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.**

**Modification No. 2** The new or modified units have been added to, or updated in the Emission Unit Description in Section D.1, as follows:

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emission Units Description 1:

\* \* \*

- (f) One (1) UV-cured ~~vacuum~~ **mist** coater booth to coat wood molding with a capacity of ~~300~~ **378** wood moldings per hour, identified as ~~UVC-1~~ **UVMC-1**, ~~constructed in 1994~~ **approved in 2010 for construction**, and exhausting to stacks UVS-1. and UVS-2. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (g) ~~Two (2)~~ **One (1)** manual spray booths, identified as STB-19 and STB-20, each constructed in 2003, each with a maximum capacity of 220 units per hour, each with particulate emissions controlled by a dry filter, and exhausting through stacks STS-5 and STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (h) **One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.**
- ~~(h) One (1) end coat booth, identified as ECB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack ECS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.~~

\* \* \*

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

### Modification No. 3

The new or modified units have been incorporated as appropriate into the Section D.1 - Emission Limitations and Standards, Compliance Determination, Compliance Monitoring, and Record Keeping and Reporting requirements as follows. Additionally, the following OAQ standard language changes have been made in this section:

- (a) For clarity, IDEM changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language, to "Section C ... contains the Permittee's obligations with regard to the records required by this condition."
- (b) IDEM has also decided to clarify other aspects of Section B - Preventive Maintenance Plan.
- (c) The word "status" has been added to Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

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

### D.1.1 Particulate Matter Emission Limitations Except Lake County [326 IAC 6.5]

Pursuant to 326 IAC 6.5 (Particulate Matter Emission Limitations Except Lake County), the particulate matter emissions from the conventional surface coating line (CLB-1 through CLB-6), the ~~two (2) one (1)~~ **one (1)** end coat booths (~~ECB-1 and~~ UVPB-1), the UV Sticklines (UVC-2 and UVC-4), the UV Flatline (UVC-3), the UV-cured vacuum mist coater booth (~~UVC-1~~) **(UVMC-1)**, ~~two (2) one (1)~~ **one (1)** manual spray booths (~~STB-19 and STB-20~~), **one (1) automated spray booth (STB-20)**, and the two (2) natural gas-fired ovens (OV1 and OV-2), shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

### D.1.2 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 by the end coat booths (~~ECB-1 and~~ UVPB-1), **the one (1) automated spray booth (STB-20)**, and the UV lines consisting of the UV Sticklines (UVC-4 and UVC-2), **and** the UV Flatline (UVC-3), ~~and the UV-cured vacuum coater (UVC-1)~~, each shall utilize one (1) 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.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

## Compliance Determination Requirements

### D.1.4 Particulate Control

In order to comply with Condition D.1.1, the dry filters for particulate control shall be in operation and control **particulate** emissions from the conventional surface coating line (CLB-1 through CLB-6), the ~~two (2) one (1)~~ **one (1)** end coat booths (~~ECB-1 and~~ UVPB-1), **the one (1) manual spray booth (STB-19)**, and the ~~two (2) one (1)~~ **one (1)** automated spray booths (~~STB-19 and~~ STB-20) at all times that these facilities are in operation.

## Compliance Monitoring Requirements

### D.1.5 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 CLS-1 through CLS-7, **STS-5, UVPS-1, and STS-6**, while one or more of the booths are in operation. Section C- Response to

Excursions or Exceedences **contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** ~~shall be followed whenever a condition exists which should result in a response step.~~ Failure to take response steps in accordance with ~~Section C - Response to Excursions or Exceedences~~ shall be considered a deviation from this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the spray booths in the Conventional surface coating line identified as CLB-1 through CLB-6 (stacks CLS-1 through CLS-7), **STB-19 (stack STS-5), UVPB-1 (stack UVPS-1), and STB-20 (stack STS-6)** for the presence of overspray on the rooftops and the nearby ground. ~~Section C - Response to Excursions or Exceedences for these units shall contain troubleshooting contingency and response steps for when an overspray emission, evidence of overspray emission, or other abnormal emission is observed.~~ The **Section C - Response to Excursions or Exceedences contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** ~~shall be followed whenever a condition exists which should result in a response step.~~ Failure to take response steps in accordance with ~~Section C - Response to Excursions or Exceedences~~ shall be considered a deviation from this permit.

These monitoring conditions are necessary because these spray booths **and the associated controls** must operate properly to ensure compliance with 326 IAC 6.5 (Particulate Matter Limitations Except Lake County).

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

##### **D.1.6 Record Keeping Requirements**

---

- (a) To document **the compliance status** with Condition D.1.4, the Permittee shall comply with the following:
- (1) The Permittee shall maintain a log of weekly overspray observations and monthly inspections.
  - (2) The Permittee shall maintain a log of daily inspections. The Permittee shall include in its daily log when an inspection was not performed and the reason for the lack of an inspection (e.g. the process did not operate that day).
- (b) **Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.**

**Modification No. 4** The new or modified units have been incorporated as appropriate into the Section D.2 - Emission Limitations and Standards, Compliance Determination, Compliance Monitoring, and Record Keeping and Reporting requirements as follows. In addition, the source has elected to limit the potential to emit of this modification for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> in order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable. Therefore, the Condition 2.2 has been added to the permit. Additionally, the following OAQ standard language changes have been made in this section:

- (a) For clarity, IDEM changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language, to "Section C ... contains the Permittee's obligations with regard to the records required by this condition."
- (b) IDEM has also clarified other aspects of Section B - Preventive Maintenance Plan.

- (c) The word "status" has been added to Section D - Recordkeeping and Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description 2:

- (a) Woodworking equipment controlled by baghouses, including:

\* \* \*

- (8) **One (1) woodworking cell, identified as WW-8, approved in 2010 for construction, controlled by one (1) 35,000-cubic feet per minute baghouse, identified as BH-8, and exhausting either internally or to stack BHS-8.**

\* \* \*

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

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

\* \* \*

#### D.2.2 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2][ 326 IAC 2-1.1-5]

In order to render the requirements of 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable, the Permittee shall comply with the following limits:

The one (1) woodworking cell, identified as WW-8, exhausting to the one (1) baghouse identified as BH-8, through stack BHS-8, shall not exceed the following emissions limitations:

- (1) The PM emissions from baghouse BH-8 shall not exceed 5.0 lbs/hr.
- (2) The PM<sub>10</sub> emissions from baghouse BH-8 shall not exceed 2.8 lbs/hr.
- (3) The PM<sub>2.5</sub> emissions from baghouse BH-8 shall not exceed 1.66 lbs/hr.

Compliance with these emission limits, combined with the unlimited potential emissions from the surface coating units STB-20 and UVMC, will ensure that the emissions from this modification (MSM 037-29721-00051) is less than twenty-five (25) tons of PM per year, fifteen (15) tons of PM<sub>10</sub> per year, and ten (10) tons of PM<sub>2.5</sub> per year.

#### D.2.23 Particulate Matter Emission Limitations [326 IAC 6.5-1]

Pursuant to 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County), the particulate matter emissions from the woodworking operations (WW-1, WW-2, WW-3, WW-4, WW-5, WW-6, and WW-7, and WW-8) and the four (4) sanding operations (two (2) associated with Line A and two (2) associated with Line B) shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf) of exhaust air.

#### D.2.34 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 baghouses and cartridge/dry filters controlling woodworking cells WW-1 through WW-7 and the four (4) sanding operations associated with Lines A and B.~~

**A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

### Compliance Determination Requirements

#### D.2.45 Particulate Matter Control (PM and PM<sub>10</sub>)

In order to comply with Conditions D.2.1, ~~and D.2.2,~~ **and D.2.3**, the baghouses and cartridge/dry filters for PM, ~~and PM<sub>10</sub>,~~ **and PM<sub>2.5</sub>** control shall be in operation and control emissions from the woodworking facilities (WW-1, WW-2, WW-3, WW-4, WW-5, WW-6, ~~and WW-7,~~ **WW-8**) and the four (4) sanding operations associated with Lines A and B at all times that the facilities are in operation.

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

#### D.2.56 Visible Emissions Notations

(a) Visible emission notations of the baghouse stack exhaust from stacks BHS-1 through BHS-~~78~~ and stacks DCS-1A and DCS-1B shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

\* \* \*

(e) If abnormal emissions are observed, the Permittee shall take reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ **contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

#### D.2.67 Broken or Failed Bag Detection

\* \* \*

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

#### D.2.78 Record Keeping Requirements

(a) To document ~~the compliance status~~ with Condition D.2.5, the Permittee shall maintain records of daily visible emission notations of the baghouse exhausts when venting to the atmosphere.

(b) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~ **contains the Permittee's obligations with regard to the records required by this condition.**

**Modification No. 5** The following OAQ standard language changes have been made in Section D.3:

- (a) For clarity, IDEM changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language, to "Section C ... contains the Permittee's obligations with regard to the records required by this condition."
- (b) IDEM has also decided to clarify other aspects of Section B - Preventive Maintenance Plan.
- (c) The word "status" has been added to Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

(d) Section D - Testing Requirements has been clarified as follows:

- (1) Reference to 326 IAC 3-6 has been added since it has been removed from Section C of the permit;
- (2) The phrase "not later than" has replaced the word "within";
- (3) Clarifies from which permit the timeline starts by stating "the most recent" as the trigger for repeat testing.

D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

D.3.6 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)]

- (a) In order to demonstrate compliance with Condition D.3.1(a), the Permittee shall perform a VOC destruction efficiency test for the existing RTO ~~within~~ **not later than** 180 days after the issuance of this permit (**T037-26606-00051**), utilizing methods as approved by the Commissioner. ~~This test shall be repeated at least once every five (5) years from the date of this~~ **the most recent** valid compliance demonstration. **Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).** ~~Testing shall be conducted in accordance with Section C – Performance Testing~~ **contains the Permittee's obligation with regard to the performance testing required by this condition.**
- (b) In order to demonstrate compliance with Condition D.3.1(a), the Permittee shall perform VOC capture efficiency testing for spray booths LAB-1 through LAB-4, ~~within~~ **not later than** 180 days after the issuance of this permit (**T037-26606-00051**),, utilizing methods as approved by the Commissioner. **Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).** ~~Testing shall be conducted in accordance with Section C – Performance Testing~~ **contains the Permittee's obligation with regard to the performance testing required by this condition.**
- (c) In order to demonstrate compliance with Condition D.3.1(a), the Permittee shall perform VOC capture efficiency testing for spray booths LAB-1 through LAB-4 and LBB-1 through LBB-4, ~~within~~ **not later than** 180 days after initial startup of Line B, utilizing methods as approved by the Commissioner. **Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).** ~~Testing shall be conducted in accordance with Section C – Performance Testing~~ **contains the Permittee's obligation with regard to the performance testing required by this condition.**

D.3.11 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters for spray booths LAB-1 through LAB-4 and LBB-1 through LBB-4. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks LAS-5 through LAS-8 and LBS-5 through LBS-8 while one or more of the booths are in operation. Section C- Response to Excursions or Exceedences ~~shall be followed whenever a condition exists which should result in a response step.~~ **contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** Failure to take response steps ~~in accordance with Section C – Response to Excursions or Exceedences~~ shall be considered a deviation from this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the two (2) finishing lines A and B, for the booths identified as LAB-5 through LAB-8 and LBB-5 through LBB-8 (stacks LAS-5 through LAS-8 and LBS-5 through LBS-8), for the presence of overspray on the rooftops and the nearby ground. ~~Section C - Response to Excursions or Exceedances for these units shall contain troubleshooting contingency and response steps for when an overspray emission, evidence of overspray emission, or other abnormal emission is observed. The Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

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

#### D.3.12 Record Keeping Requirements

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- (a) To document **the compliance status** with Condition D.3.1(a), the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limitations established Condition D.3.1(a):
- \* \* \*
- (b) To document **the compliance status** with Condition D.3.9, the Permittee shall maintain continuous temperature records for the thermal oxidizer and the 3-hour average temperature used to demonstrate compliance during the most recent compliant stack test.
- (c) To document **the compliance status** with Condition D.3.10, the Permittee shall maintain daily records of the duct pressure or fan amperage for the thermal oxidizer.
- (d) To document **the compliance status** with Condition D.3.11, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- ~~(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.**

#### D.3.13 Reporting Requirements

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A quarterly **report of VOC emissions and a quarterly** summary of the information to document **the compliance status** with Condition D.3.1(a) shall be submitted to the address listed in ~~Section C - General Reporting Requirements, of this permit,~~ using the reporting forms located at the end of this permit, or their equivalent, **within not later than** thirty (30) days after the end of the quarter being reported. **Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.** The report submitted by the Permittee does require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).

**Modification No. 6** The new or modified units have been incorporated as appropriate into the Section E.1 - Emissions Unit Description and Emission Limitations and Standards:

## SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

#### Emissions Unit Description 4:

\* \* \*

- (e) One (1) UV-cured ~~vacuum~~ **mist** coater booth to coat wood molding with a capacity of ~~300~~ **378** wood moldings per hour, identified as ~~UVC-1~~ **UVMC-1**, ~~constructed in 1994~~ **approved in 2010 for construction**, and exhausting to stacks UVS-1. ~~and UVS-2~~. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (f) ~~Two (2)~~ **One (1) manual** spray booths, identified as STB-19 ~~and STB-20~~, each constructed in 2003, ~~each~~ with a maximum capacity of 220 units per hour, ~~each~~ with particulate emissions controlled by a dry filter, and exhausting through stacks ~~STS-5 and STS-6~~. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.
- (g) **One (1) automated spray booth, identified as STB-20, approved in 2010 for construction, with a maximum capacity of 378 units per hour, with particulate emissions controlled by a dry filter, and exhausting through stack STS-6. [326 IAC 6.5] Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.**
- ~~(g) One (1) end coat booth, identified as ECB-1, constructed in 1994, with particulate emissions controlled by a dry filter, and exhausting through stack ECS-1. Under 40 CFR 63, Subpart JJ, this is an affected facility that is engaged in the manufacture of wood furniture or wood furniture components.~~

\* \* \*

- ~~(n) Two (2) edge coaters using roll coating, identified as ECR-1 and ECR-2, Under 40 CFR 63, Subpart JJ, these are affected facilities that are engaged in the manufacture of wood furniture or wood furniture components.~~

#### National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements:

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

- (a) Pursuant to 40 CFR 63.800, 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 unless otherwise specified in 40 CFR 63, Subpart JJ (National Emission Standards for Wood Furniture Manufacturing Operations), for the conventional line surface coating operations, the finishing line (Line A) surface coating operations, the finishing line (Line B) surface coating operations, the ~~two (2)~~ **one (1)** end coat booths (~~ECB-1 and UVPB-1~~), UV Sticklines (UVC-4 and UVC-2), UV Flatline (UVC-3), the one (1) UV-cured ~~vacuum~~ **mist** coater (UVMC-4), and the two (2) spray booths (STB-19 and STB-20).
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.1.2 National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations [40 CFR 63, Subpart JJ]

Pursuant to 40 CFR Part 63, Subpart JJ, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart JJ for the conventional line surface coating operations, the finishing line (Line A) surface coating operations, the finishing line (Line B) surface coating operations, the ~~two (2)~~ **one (1)** end coat booths (~~ECB-1 and~~ UVPB-1), UV Sticklines (UVC-4 and UVC-2), UV Flatline (UVC-3), UV cured ~~vacuum mist~~ **coater (UVMC-4)**, and the two (2) spray booths (STB-19 and STB-20) and all other activities associated with the wood furniture manufacturing operations as specified in 40 CFR Part 63, Subpart JJ. All of the wood furniture coating operations and emission units listed above must comply with the following provisions of 40 CFR Part 63, Subpart JJ:

\* \* \*

**Conclusion and Recommendation**

This proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 037-29721-00051 and Significant Permit Modification No. 037-29730-00051. The staff recommends to the Commissioner that these Part 70 Minor Source and Significant Permit Modifications be approved.

**IDEM Contact**

- (a) Questions regarding this proposed permit can be directed to Angela Taylor at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6543 or toll free at 1-800-451-6027, extension 4-6543.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov).

**Appendix A: Emissions Calculations  
Modification Emissions Summary**

**Company Name: MasterBrand Cabinet Company, Inc.**  
**Address City IN Zip: 614 West Third Street, Ferdinand, IN 47532**  
**County: Dubois**  
**Operating Permit Number: T037-26606-00051**  
**Minor Source Modification No.: 037-29721-00051**  
**Significant Permit Modification No.: 037-29730-00051**  
**SIC Code: 2434**  
**Reviewer: APT**  
**Date: 9/30/2010**

**New or Modified Units - Unlimited/Uncontrolled Emissions**

| Process Description         | Unlimited/Uncontrolled Potential to Emit<br>(tons/year) |                  |                   |                 |                 |             |             |                          |                |                      |
|-----------------------------|---|------------------|-------------------|-----------------|-----------------|-------------|-------------|--------------------------|----------------|----------------------|
|                             | Criteria Pollutants                                     |                  |                   |                 |                 |             |             | Hazardous Air Pollutants |                |                      |
|                             | PM  | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | VOC         | CO          | Total HAPs               | Worst Case HAP |                      |
| Insignificant Spray Booths: |   |                  |                   |                 |                 |             |             |                          |                |                      |
| STB-20                      | 2.41  | 2.41             | 2.41              | -----           | -----           | 2.82        | -----       | 1.86                     | 1.86           | Glycol Ethers        |
| UVMC                        | 0.26  | 0.26             | 0.26              | -----           | -----           | 0.00        | -----       | neg.                     | neg.           | -----                |
| Woodworking:                |   |                  |                   |                 |                 |             |             |                          |                |                      |
| WW8                         | 283.96  | 283.96           | 283.96            | -----           | -----           | -----       | -----       | -----                    | -----          | -----                |
| <b>TOTAL</b>                | <b>286.62</b>   | <b>286.62</b>    | <b>286.62</b>     | <b>0.00</b>     | <b>0.00</b>     | <b>2.82</b> | <b>0.00</b> | <b>1.86</b>              | <b>1.86</b>    | <b>Glycol Ethers</b> |

**New or Modified Units - Controlled Emissions**

| Process Description         | Controlled Potential to Emit<br>(tons/year) |                  |                   |                 |                 |             |             |                          |                |                      |
|-----------------------------|---|------------------|-------------------|-----------------|-----------------|-------------|-------------|--------------------------|----------------|----------------------|
|                             | Criteria Pollutants                         |                  |                   |                 |                 |             |             | Hazardous Air Pollutants |                |                      |
|                             | PM  | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | VOC         | CO          | Total HAPs               | Worst Case HAP |                      |
| Insignificant Spray Booths: |   |                  |                   |                 |                 |             |             |                          |                |                      |
| STB-20                      | 0.24  | 0.24             | 0.24              | -----           | -----           | 2.82        | -----       | 1.86                     | 1.86           | Glycol Ethers        |
| UVMC                        | 0.26  | 0.26             | 0.26              | -----           | -----           | 0.00        | -----       | neg.                     | neg.           | -----                |
| Woodworking:                |   |                  |                   |                 |                 |             |             |                          |                |                      |
| WW8                         | 2.84  | 2.84             | 2.84              | -----           | -----           | -----       | -----       | -----                    | -----          | -----                |
| <b>TOTAL</b>                | <b>3.34</b>                                 | <b>3.34</b>      | <b>3.34</b>       | <b>0.00</b>     | <b>0.00</b>     | <b>2.82</b> | <b>0.00</b> | <b>1.86</b>              | <b>1.86</b>    | <b>Glycol Ethers</b> |

**New or Modified Units - Limited Emissions**

| Process Description         | Limited Potential to Emit<br>(tons/year) |                    |                     |                 |                 |             |             |                                       |                |                      |
|-----------------------------|--|--------------------|---------------------|-----------------|-----------------|-------------|-------------|---------------------------------------|----------------|----------------------|
|                             | Criteria Pollutants                      |                    |                     |                 |                 |             |             | Hazardous Air Pollutants <sup>1</sup> |                |                      |
|                             | PM*                                      | PM <sub>10</sub> * | PM <sub>2.5</sub> * | SO <sub>2</sub> | NO <sub>x</sub> | VOC         | CO          | Total HAPs                            | Worst Case HAP |                      |
| Insignificant Spray Booths: |  |                    |                     |                 |                 |             |             |                                       |                |                      |
| STB-20                      | 2.41                                     | 2.41               | 2.41                | -----           | -----           | 2.82        | -----       | 1.86                                  | 1.86           | Glycol Ethers        |
| UVMC                        | 0.26                                     | 0.26               | 0.26                | -----           | -----           | 0.00        | -----       | neg.                                  | neg.           | -----                |
| Woodworking:                |  |                    |                     |                 |                 |             |             |                                       |                |                      |
| WW8                         | 21.90                                    | 12.26              | 7.27                | -----           | -----           | -----       | -----       | -----                                 | -----          | -----                |
| <b>TOTAL</b>                | <b>24.57</b>                             | <b>14.93</b>       | <b>9.94</b>         | <b>0.00</b>     | <b>0.00</b>     | <b>2.82</b> | <b>0.00</b> | <b>1.86</b>                           | <b>1.86</b>    | <b>Glycol Ethers</b> |

\* Particulate has been limited for 326 IAC 2-2 (PSD)

<sup>1</sup>VHAPS are limited by 40 CFR 63 Subpart JJ. Coatings are limited 1.0 lb of VHAP / lb of coating solids.

**Appendix A: Emissions Calculations**  
**Insignificant Spray Booth STB-20**

Company Name: MasterBrand Cabinet Company, Inc.  
 Address City IN Zip: 614 West Third Street, Ferdinand, IN 47532  
 County: Dubois  
 Operating Permit Number: T037-26606-00051  
 Minor Source Modification No.: 037-29721-00051  
 Significant Permit Modification No.: 037-29730-00051  
 SIC Code: 2434  
 Reviewer: APT  
 Date: 9/30/2010

VOC and Particulate Emissions

| 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 | PM Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency | Control Device | Control Efficiency* (%) | PTE of PM/PM10 after Control (tons/yr) |
|-------------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|---------------------|---|----------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------|-------------------|---------------------|----------------|-------------------------|--|
| *Sarsaparilla W/B Stain | 8.70             | 75.12%                             | 67.260%        | 7.86%             | 0.000%         | 22.18%                          | 0.00168                | 378                 | 0.68  | 0.68                             | 0.43                          | 10.43                        | 1.90                        | 2.41                  | 3.08              | 60%                 | Dry Filter     | 90.0%                   | 0.24                                   |
| **Java W/B Stain        | 8.80             | 78.52%                             | 66.990%        | 11.53%            | 0.000%         | 19.40%                          | 0.00168                | 378                 | 1.01  | 1.01                             | 0.64                          | 15.47                        | 2.82                        | 2.10                  | 5.23              | 60%                 | Dry Filter     | 90.0%                   | 0.21                                   |

Note - although two products can not be used simultaneously, two coatings are listed because one will result in higher potential particulate emissions and the other will result in higher potential VOC emissions.

\*Coating with the highest solids content

\*\*Coating with the highest VOC content

**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 hrs/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 = Sum of all solvents used

HAPs Emissions

| Material                     | Unit ID | Density (Lb/Gal) | Gal of Mat. - gal/unit | Maximum unit/hour | Weight % Glycol Ethers | Glycol Ethers Emissions (ton/yr) |
|------------------------------|---------|------------------|------------------------|-------------------|------------------------|----------------------------------|
| Sarsaparilla W/B Stain       | STB-20  | 8.70             | 0.00168                | 378               | 3.80%                  | 0.92                             |
| Java W/B Stain               |         | 8.80             | 0.00168                | 378               | 7.60%                  | 1.86                             |
| <b>Single HAP</b>            |         |                  |                        |                   |                        | <b>1.86</b>                      |
| <b>Combined HAPs Total =</b> |         |                  |                        |                   |                        | <b>1.86</b>                      |

Note - Only the highest HAP containing coating is counted because both products cannot be used at the same time.

**METHODOLOGY**

PTE HAPs (tons/yr) = Density (lb/gal) x Max. Usage (gal/unit) x Maximum Throughput (unit/hr) x Weight % HAP x 8760 hrs/yr x 1 ton/2000 lbs

**Appendix A: Emissions Calculations  
Insignificant Spray Booth UVMC-1**

**Company Name: MasterBrand Cabinet Company, Inc.**  
**Address City IN Zip: 614 West Third Street, Ferdinand, IN 47532**  
**County: Dubois**  
**Operating Permit Number: T037-26606-00051**  
**Minor Source Modification No.: 037-29721-00051**  
**Significant Permit Modification No.: 037-29730-00051**  
**SIC Code: 2434**  
**Reviewer: APT**  
**Date: 9/30/2010**

VOC and Particulate Emissions

| 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 | PM Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency |
|-------------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|---------------------|---|----------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------|-------------------|---------------------|
| Spray UV Molding SS T/C | 9.17             | 0.01%                              | 0.000%         | 0.01%             | 0.000%         | 99.98%                          | 0.00085                | 378                 | 0.00  | 0.00                             | 0.00                          | 0.01                         | 0.00                        | 0.26                  | 0.00              | 98%                 |
| <b>TOTAL</b>            |                  |                                    |                |                   |                |                                 |                        |                     |   |                                  | <b>0.00</b>                   | <b>0.01</b>                  | <b>0.00</b>                 | <b>0.26</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 = Sum of all solvents used

This coating contains 0 to neg. amounts of HAPs

**Appendix A: Emissions Calculations  
Woodworking Operations**

**Company Name: MasterBrand Cabinet Company, Inc.**  
**Address City IN Zip: 614 West Third Street, Ferdinand, IN 47532**  
**County: Dubois**  
**Operating Permit Number: T037-26606-00051**  
**Minor Source Modification No.: 037-29721-00051**  
**Significant Permit Modification No.: 037-29730-00051**  
**SIC Code: 2434**  
**Reviewer: APT**  
**Date: 9/30/2010**

| Process      | Control Device ID | Control Device | Outlet Grain Loading (gr/dscf)* | Maximum Air Flow Rate (scfm) | Control Efficiency (%) | PTE of PM/PM10/PM2.5 after Control (lbs/hr) | PTE of PM/PM10/PM2.5 after Control (tons/yr) | PTE of PM/PM10 before Control (lbs/hr) | PTE of PM/PM10/PM2.5 before Control (tons/yr) | 326 IAC 6.5 Limit (gr/dscf) | Limited Particulate Emissions based on 326 IAC 6.5 (lb/hr) | Limited Particulate Emissions based on 326 IAC 6.5 (ton/yr) |
|--------------|-------------------|----------------|---------------------------------|------------------------------|------------------------|---|--|--|---|-----------------------------|--|---|
| WW-8         | BH-8              | Baghouse       | 0.002161                        | 35,000                       | 99.0%                  | 0.65  | 2.84   | 65                                     | 284   | 0.03                        | 9.00   | 39.42   |
| <b>Total</b> |                   |                |                                 |                              |                        |   | <b>2.8</b>                                   |  | <b>284</b>                                    |                             |  |   |

Assume all PM emissions equal PM10 and PM 2.5 emissions.

\* These are the grain loading limits proposed by the Permittee, which are based on the test results for similar units.

**Methodology**

PTE of PM/PM10/PM2.5 after Control (lbs/hr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 mins/hr x 1/7000 lb/gr

PTE of PM/PM10/PM2.5 after Control (tons/yr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 mins/hr x 1/7000 lb/gr x 8760 hr/yr x 1 ton/2000 lbs

PTE of PM/PM10/PM2.5 before Control (lbs/hr) = PTE of PM/PM10 after Control (lbs/hr) / (1-Control Efficiency)

PTE of PM/PM10/PM2.5 before Control (tons/yr) = PTE of PM/PM10 after Control (tons/yr) / (1-Control Efficiency)

Limited Particulate Emissions based on 326 IAC 6.5 (lb/hr) = Air Flow (acfm) \* Limit (gr/dscf) \* 60 (min/hr) \* (1 lb/7000 gr)

Limited Particulate Emissions based on 326 IAC 6.5 (ton/yr) = Air Flow (acfm) \* Limit (gr/dscf) \* 60 (min/hr) \* (1 lb/7000 gr) \* (8760 hr/yr) \* (1ton/2000lbs)



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Michael Decker  
MasterBrand Cabinets, Inc. #4/22  
614 W. 3<sup>rd</sup> St.  
Ferdinand IN 47532

**DATE:** Nov. 12, 2010

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
Minor Source Modification  
037-29721-00051

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Glen Meservy, Sr. Director MasterBrand Cabinets  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

|                            |   |   |   |  |
|----------------------------|---|---|---|--|
| IDEM Staff                 | BMILLER 11/12/2010<br>MasterBrand Cabinets, Inc-# 4/22 037- 29721-00051 (final)   |   |   | AFFIX STAMP<br>HERE IF<br>USED AS<br>CERTIFICATE<br>OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 | Type of Mail:<br><br><b>CERTIFICATE OF MAILING ONLY</b> |  |

| Line | Article Number | Name, Address, Street and Post Office Address  | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee |
|------|----------------|--|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|
|      |                |  |         |                 |                            |               |                 |          |          |          | Remarks        |
| 1    |                | Michael Decker MasterBrand Cabinets, Inc-# 4/22 614 W 3rd St Ferdinand IN 47532 (Source CAATS) <i>Vias Confirmed Delivery</i>  |         |                 |                            |               |                 |          |          |          |                |
| 2    |                | Glen Meservy Sr. Director MasterBrand Cabinets, Inc-# 4/22 614 W 3rd St Ferdinand IN 47532 (RO CAATS)                          |         |                 |                            |               |                 |          |          |          |                |
| 3    |                | Mr. Randy Brown Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party) |         |                 |                            |               |                 |          |          |          |                |
| 4    |                | Dubois County Commissioners One Courthouse Square Jasper IN 47546 (Local Official)   |         |                 |                            |               |                 |          |          |          |                |
| 5    |                | DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 (Health Department)                                  |         |                 |                            |               |                 |          |          |          |                |
| 6    |                | Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |
| 7    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 8    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 9    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 10   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 11   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 12   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 13   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 14   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 15   |                |  |         |                 |                            |               |                 |          |          |          |                |

|   |  |  |  |
|---|--|--|--|
| Total number of pieces Listed by Sender | Total number of Pieces Received at Post Office | Postmaster, Per (Name of Receiving employee) | The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels. |
|---|--|--|--|