



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: October 3, 2013

RE: MasterBrand Cabinets, Inc., Plant 5/037-33560-00111

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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-AM.dot 6/13/2013



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Michael R. Pence
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Sally Gaines
MasterBrand Cabinets, Inc., Plant 5
1008 N Geiger St
Huntingburg, Indiana 47542

October 3, 2013

Re: 037-33560-00111
First Administrative Amendment to
M037-31721-00111

Dear Sally Gaines:

MasterBrand Cabinets, Inc. was issued a Minor Source Operating Permit (MSOP) No. M037-31721-00111 on August 20, 2012 for a stationary wood cabinet manufacturing facility located at 11th & Geiger St, Huntingburg, Indiana 47542. On August 21, 2013, the Office of Air Quality (OAQ) received an application from the source requesting to construct a 61,000 dscfm baghouse.

- Pursuant to 326 IAC 2-6.1-6(d)(8), this change to the permit is considered an administrative amendment because the permit is amended to incorporate a modification that adds an emissions unit or units of the same type that is already permitted or replaces an existing unit and that will comply with the same applicable requirements and permit terms and conditions as the existing emission unit, and the modification does not result in a potential to emit greater than the thresholds in 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), or 326 IAC 2-7 (Part 70 Operating Permit).

The following is the new emission unit:

One (1) integral baghouse, identified as BH-5 for particulate control to the wood cabinet manufacturing facility (WW-1), with a maximum flow rate of 61,000 acfm, a maximum outlet grain loading of 0.0012 gr/dscf and exhausting to stack W-5.

PTE of Modification (tons/year)

The following table shows the increase in the potential to emit for the wood cabinet manufacturing facility (WW-1) after integral woodworking controls:

Process/ Emission Unit	Increase in PTE of Proposed Modification (tons/year)									
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
Potential to Emit of Modified Unit (Before Modification)										
Woodworking (WW-1)	7.40	7.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potential to Emit of Modified Unit (After Modification)										
Woodworking (WW-1)	10.14	10.14	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Increase in PTE of Modified Unit	+2.74	+2.74	+2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Baghouse BH-5 is considered an integral part of the wood cabinet manufacturing facility and potential emission are calculated after controls.



The uncontrolled/unlimited potential to emit of the entire source after the addition of this emission unit will continue to be within the threshold levels specified in 326 IAC 2-6.1 (MSOP). (See Appendix A for the calculations).

The addition of the emission unit will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), or 326 IAC 2-7 (Part 70).

See Appendix A for the calculation and the PTE of the entire source after the addition of the emission unit.

- (a) No new state rules are applicable to this source due to the addition of the emission unit.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this administrative amendment.

Proposed Changes

...
A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) wood cabinet manufacturing facility, identified as WW-1, constructed in 1986, **modified in 2013**, with a maximum throughput capacity of 74,081 square feet per hour, equipped with ~~four (4)~~ **five (5)** integral baghouses for particulate control (BH-1, BH-2, BH-3, ~~and BH-4~~, **and BH-5**), exhausting to stacks W-1, W-2, W-3, ~~and W-4~~, **and W-5** respectively. ~~Baghouse BH-4 was replaced in 2002.~~

...
SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) wood cabinet manufacturing facility, identified as WW-1, constructed in 1986, **modified in 2013**, with a maximum throughput capacity of 74,081 square feet per hour, equipped with ~~four (4)~~ **five (5)** integral baghouses for particulate control (BH-1, BH-2, BH-3, ~~and BH-4~~ **and BH-5**), exhausting to stacks W-1, W-2, W-3, ~~and W-4~~ **W-5**, respectively. ~~Baghouse BH-4 was replaced in 2002.~~

(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 2-6.1-5(a)(1)]

D.1.1 Prevention of Significant Deterioration [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (e) **PM, PM10 and PM2.5 emissions (after control) from Baghouse BH-5 controlling particulate emissions from the wood cabinet manufacturing facility (WW-1) shall not exceed 5.14 pounds per hour.**

...
D.1.2 Particulate Emission Limitations [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2, the particulate matter emissions from the woodworking cabinet manufacturing facility after baghouse control (BH-1, BH-2, BH-3, ~~and BH-4~~, **and BH-5**) shall not exceed three-hundreds (0.03) grain per dry standard cubic foot (dsf).

The baghouses, identified as BH-1, BH-2, BH-3, ~~and BH-4~~, **and BH-5**, are considered to be integral to the process, and shall be in operation at all times the woodworking cabinet manufacturing facility is in operation, in order to comply with this limit.

Compliance Determination Requirements

D.1.3 Particulate Control

- (a) The baghouses, identified as BH-1, BH-2, BH-3 ~~and BH-4~~, **and BH-5**, for particulate control shall be in operation and control emissions from the woodworking cabinet manufacturing facility at all times that the woodworking facility is in operation.

...

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.4 Baghouse Inspections

An inspection shall be performed each calendar quarter of each of the ~~four~~ **five (4-5)** integral baghouses, identified as BH-1, BH-2, BH-3, ~~and BH-4~~, **and BH-5**, associated with the one (1) wood cabinet manufacturing facility, identified as WW-1, when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

...

Additional Changes

IDEM, OAQ made additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions. The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

1. IDEM clarified the following condition to indicate that the analog instrument must be capable of measuring the parameters outside the normal range.

...

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (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. **The analog instrument shall be capable of measuring values outside of the normal range.**
2. Effective March 1, 2013, the 326 IAC 8-3 (Organic Solvent Degreasing Operations) rule requirements have been updated. The requirements of 326 IAC 8-3-2 have been revised and 326 IAC 8-3-5 has been repealed. Conditions D.3.1 and D.3.2 of the permit have been revised and Condition D.3.3 has been added as follows:

...

D.3.1 ~~Cold Cleaner Operation~~ **Volatile Organic Compounds (VOC)** [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2, **Cold cleaner degreaser control equipment and operating requirements), for cold cleaning operations constructed after January 1, 1980, the Permittee shall comply with the following** ~~owner or operator of the cold cleaning facility shall:~~

- (a) **The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:**
- (a1) Equip the ~~cleaner~~ **degreaser** with a cover;
 - (b2) Equip the ~~cleaner~~ **degreaser** with a **facility device** for draining cleaned parts;

- (e3) Close the degreaser cover whenever parts are not being handled in the ~~cleaner~~ **degreaser**;
 - (d4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (e5) Provide a permanent, conspicuous label ~~summarizing that lists~~ **the operating requirements in subdivisions (3), (4), (6), and (7)**;
 - (f6) Store waste solvent only in ~~covered~~ **closed** containers; ~~and not dispose~~
 - (7) **Prohibit the disposal or transfer** of waste solvent ~~or transfer it to another party,~~ in such a manner that **could allow** greater than twenty percent (20%) of the waste solvent (by weight) ~~can~~ **to** evaporate into the atmosphere.
- (b) **The owner or operator of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:**
- (1) **Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):**
 - (A) **A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.**
 - (B) **A water cover when solvent used is insoluble in, an heavier than, water.**
 - (C) **A refrigerated chiller.**
 - (D) **Carbon adsorption**
 - (E) **An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.**
 - (2) **Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.**
 - (3) **If used, solvent spray:**
 - (A) **must be a solid, fluid stream; and**
 - (B) **shall be applied at a pressure that does not cause excessive splashing.**

D.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

~~D.3.2 Cold Cleaner Operation and Control [326 IAC 8-3-5]~~

~~Pursuant to 326 IAC 8-3-5(a), the owner or operator of cold cleaner degreaser facilities shall ensure that the following control equipment requirements are met:~~

- ~~(a) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - ~~(1) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three tenths (0.3) pounds per square inch) measured at thirty eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~
 - ~~(2) The solvent is agitated; or~~
 - ~~(3) The solvent is heated.~~~~

- ~~(b) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three tenths (4.3) kiloPascals (thirty two (32) millimeters of mercury) or six tenths (0.6) pounds per square inch) measured at thirty eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~

- ~~(c) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).~~

- ~~(d) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.~~

- ~~(e) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three tenths (4.3) kiloPascals (thirty two (32) millimeters of mercury) or six tenths (0.6) pounds per square inch) measured at thirty eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty eight and nine tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - ~~(1) A freeboard that attains a freeboard ratio of seventy five hundredths (0.75) or greater.~~
 - ~~(2) A water cover when solvent is used is insoluble in, and heavier than, water.~~
 - ~~(3) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S EPA as a SIP revision.~~~~

~~Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of cold cleaning facilities shall ensure that the following operating requirements are met:~~

- ~~(a) Close the cover whenever articles are not being handled in the degreaser.~~

- ~~(b) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~

- ~~(c) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.3.3 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of**

solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

- (1) The name and address of the solvent supplier.**
 - (2) The date of purchase.**
 - (3) The type of solvent purchased.**
 - (4) The total volume of the solvent purchased.**
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).**
- (b) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.**

...
All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. 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

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 Marcia Earl of my staff at 317-233-0863 or 1-800-451-6027, and ask for extension 3-0863.

Sincerely,



Nathan C. Bell, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Appendix A
NB/me

cc: File - Dubois County
Dubois County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



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**New Source Review and
Minor Source Operating Permit
OFFICE OF AIR QUALITY**

**MasterBrand Cabinets, Inc., Plant 5
11th Street and Geiger Street
Huntingburg, Indiana 47542**

(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 to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M037-31721-00111	
Original Issued by: Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: August 20, 2012 Expiration Date: August 20, 2017

First Administrative Amendment No.: 037-33560-00111	
Issued by:  Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: October 3, 2013 Expiration Date: August 20, 2017



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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary wood cabinet manufacturing facility.

Source Address:	11th Street and Geiger Street, Huntingburg, Indiana 47542
General Source Phone Number:	(812) 482-2527
SIC Code:	2434 (Wood Kitchen Cabinets)
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) wood cabinet manufacturing facility, identified as WW-1, constructed in 1986, modified in 2013, with a maximum throughput capacity of 74,081 square feet per hour, equipped with five (5) integral baghouses for particulate control (BH-1, BH-2, BH-3, BH-4, and BH-5), exhausting to stacks W-1, W-2, W-3, W-4, and W-5, respectively.
- (b) One (1) hot melt coater operation, identified as HMC-1, constructed in 1997, with a nominal rated capacity of 265.5 pounds of adhesive per hour.
- (c) One (1) hot melt coater operation, identified as HMC-2, approved for construction in 2012, with a nominal rated capacity of 476.80 pounds of adhesive per hour.
- (d) Edge banding operations, comprised of units constructed between 1990 and 2010, with a nominal rated capacity of 28.6 pounds of adhesive per hour.
- (e) Veneer room roll coater operation, constructed in 1994, with a nominal rated capacity of 25 pounds of adhesive per hour.
- (f) One (1) cold cleaner degreaser, constructed prior to 2002, with a nominal rated capacity of 0.004 gallons per hour.
- (g) Natural gas-fired combustion sources each with heat input equal to or less than ten million (10,000,000) Btu per hour:
 - (1) One (1) natural gas-fired boiler, constructed in 1996, with a maximum heat input capacity of 0.645 MMBtu per hour, identified as BLR-1;
 - (2) One (1) natural gas-fired boiler, constructed in 1994, with a maximum heat input capacity of 1.357 MMBtu per hour, identified as BLR-2; and

- (3) One (1) natural gas-fired boiler, approved for construction in 2012, with a maximum heat input capacity of 0.645 MMBtu per hour, identified as BLR-3.
- (4) Natural gas-fired space heaters and hot water heater with a combined maximum heat input capacity of 2.930 million BTU per hour; and
- (5) Natural gas-fired air make-up units with a combined maximum heat input capacity of 14.486 million BTU per hour.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M037-31721-00111, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, 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

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

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

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

B.7 Duty to Provide Information

- (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 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 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
- (c) The notification 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.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (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 Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M037-31721-00111 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 one hundred twenty (120) days 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 2-6.1 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 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

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

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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 permitted 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) 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.18 Credible Evidence [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 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 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.4 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.5 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.6 Fugitive Dust Emissions [326 IAC 6-4]

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
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.

- (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 2-6.1-5(a)(2)]

C.8 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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (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. The analog instrument shall be capable of measuring values outside of the normal range.

- (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

C.12 Response to Excursions or Exceedances

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

- (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.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) 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

- (b) 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.

- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. 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.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) wood cabinet manufacturing facility, identified as WW-1, constructed in 1986, modified in 2013, with a maximum throughput capacity of 74,081 square feet per hour, equipped with five (5) integral baghouses for particulate control (BH-1, BH-2, BH-3, BH-4, and BH-5), exhausting to stacks W-1, W-2, W-3, W-4, and W-5, respectively.

(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 2-6.1-5(a)(1)]

D.1.1 Prevention of Significant Deterioration [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) PM, PM10 and PM2.5 emissions (after control) from Baghouse BH-1 controlling particulate emissions from the wood cabinet manufacturing facility (WW-1) shall each not exceed 5.14 pounds per hour.
- (b) PM, PM10 and PM2.5 emissions (after control) from Baghouse BH-2 controlling particulate emissions from the wood cabinet manufacturing facility (WW-1) shall each not exceed 5.14 pounds per hour.
- (c) PM, PM10 and PM2.5 emissions (after control) from Baghouse BH-3 controlling particulate emissions from the wood cabinet manufacturing facility (WW-1) shall each not exceed 5.14 pounds per hour.
- (d) PM, PM10 and PM2.5 emissions (after control) from Baghouse BH-4 controlling particulate emissions from the wood cabinet manufacturing facility (WW-1) shall each not exceed 5.14 pounds per hour.
- (e) PM, PM10 and PM2.5 emissions (after control) from Baghouse BH-5 controlling particulate emissions from the wood cabinet manufacturing facility (WW-1) shall not exceed 5.14 pounds per hour.

Compliance with this limit, combined with the potential to emit PM, PM10 and PM2.5 from all other emission units at this source, shall limit the source-wide potential to emit of PM, PM10, and PM2.5 to less than 250 tons per twelve (12) consecutive month period, each, and shall render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.1.2 Particulate Emission Limitations [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2, the particulate matter emissions from the woodworking cabinet manufacturing facility after baghouse control (BH-1, BH-2, BH-3, BH-4, and BH-5) shall not exceed three-hundreds (0.03) grain per dry standard cubic foot (dscf).

The baghouses, identified as BH-1, BH-2, BH-3, BH-4, and BH-5, are considered to be integral to the process, and shall be in operation at all times the woodworking cabinet manufacturing facility is in operation, in order to comply with this limit.

Compliance Determination Requirements

D.1.3 Particulate Control

- (a) The baghouses, identified as BH-1, BH-2, BH-3, BH-4, and BH-5, for particulate control shall be in operation and control emissions from the woodworking cabinet manufacturing facility at all times that the woodworking facility is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.4 Baghouse Inspections

An inspection shall be performed each calendar quarter of each of the five (5) integral baghouses, identified as BH-1, BH-2, BH-3, BH-4, BH-5, associated with the one (1) wood cabinet manufacturing facility, identified as WW-1, when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.1.5 Broken or Failed Bag Detection

- (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 C- Response to Excursions or Exceedances).
- (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 emissions unit. 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 C- Response to Excursions or Exceedances).

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.6 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain records of the results of the inspections required under Condition D.1.4.
- (b) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) hot melt coater operation, identified as HMC-1, constructed in 1997, with a nominal rated capacity of 265.5 pounds of adhesive per hour.
- (c) One (1) hot melt coater operation, identified as HMC-2, approved for construction in 2012, with a nominal rated capacity of 476.80 pounds of adhesive per hour.

(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 2-6.1-5(a)(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]

Pursuant to 326 IAC 8-2-12, the surface coating applied to wood furnishings, including cabinets, utilizing the hot melt coaters HMC-1 and HMC-2, shall utilize one (1) or more of the following application systems:

- 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.

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (f) One (1) cold cleaner degreaser, constructed prior to 2002, with a nominal rated capacity of 0.004 gallons per hour.

(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 2-6.1-5(a)(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2, Cold cleaner degreaser control equipment and operating requirements), for cold cleaning operations constructed after January 1, 1980, the Permittee shall comply with the following:

- (a) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:
- (1) Equip the degreaser with a cover;
 - (2) Equip the degreaser with a device for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7);
 - (6) Store waste solvent only in closed containers;
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) The owner or operator of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, an heavier than, water.
 - (C) A refrigerated chiller.
 - (D) Carbon adsorption

- (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray:
 - (A) must be a solid, fluid stream; and
 - (B) shall be applied at a pressure that does not cause excessive splashing.

D.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.3.3 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase.
 - (3) The type of solvent purchased.
 - (4) The total volume of the solvent purchased.
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.4

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (g) Natural gas-fired combustion sources each with heat input equal to or less than ten million (10,000,000) Btu per hour:
- (1) One (1) natural gas-fired boiler, constructed in 1996, with a maximum heat input capacity of 0.645 MMBtu per hour, identified as BLR-1;
 - (2) One (1) natural gas-fired boiler, constructed in 1994, with a maximum heat input capacity of 1.357 MMBtu per hour, identified as BLR-2; and
 - (3) One (1) natural gas-fired boiler, approved for construction in 2012, with a maximum heat input capacity of 0.645 MMBtu per hour, identified as BLR-3.

(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 2-6.1-5(a)(1)]

D.4.1 Particulate Emission Limitations [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2(b)(3), the particulate matter (PM) emissions from the three (3) natural gas-fired boilers, identified as BLR-1, BLR-2 and BLR-3, shall each not be greater than one-hundredth (0.01) grain per dry standard cubic foot (dscf).

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	MasterBrand Cabinets, Inc., Plant 5
Address:	11th Street and Geiger Street
City:	Huntingburg, Indiana 47542
Phone #:	(812) 482-2527
MSOP #:	M037-31721-00111

I hereby certify that MasterBrand Cabinets, Inc., Plant 5 is still in operation.
 no longer in operation.
I hereby certify that MasterBrand Cabinets, Inc., Plant 5 is in compliance with the requirements of MSOP M037-31721-00111.
 not in compliance with the requirements of MSOP M037-31721-00111.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE AND ENFORCEMENT BRANCH FAX NUMBER: (317) 233-6865

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

**TSD Appendix A: Emission Calculations
Emissions Summary
Before Administrative Amendment**

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Date: September 2013

Unlimited Potential to Emit (tons/yr) Before Integral Woodworking Controls

	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Woodworking*	739.90	739.90	739.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Boiler BLR-1	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Boiler BLR-2	0.01	0.05	0.05	0.00	0.59	0.03	0.50	718	0.01	0.01	hexane
Boiler BLR-3	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Air Make-up Units	0.12	0.48	0.48	0.04	6.34	0.35	5.33	1,549	0.02	0.02	hexane
Space Heaters	0.02	0.10	0.10	0.01	1.28	0.07	1.08	7,660	0.12	0.11	hexane
Edge Bander	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-1	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-2	0.00	0.00	0.00	0.00	0.00	16.71	0.00	0.00	negl.	negl.	--
Veneer Room Operations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	formaldehyde
Degreasing	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	--
Total	740.07	740.57	740.57	0.05	8.77	27.62	7.39	10,609	0.50	0.33	formaldehyde

Unlimited Potential to Emit (tons/yr) After Integral Woodworking Controls

	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Woodworking*	7.40	7.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Boiler BLR-1	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Boiler BLR-2	0.01	0.05	0.05	0.00	0.59	0.03	0.50	718	0.01	0.01	hexane
Boiler BLR-3	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Air Make-up Units	0.12	0.48	0.48	0.04	6.34	0.35	5.33	1,549	0.02	0.02	hexane
Space Heaters	0.02	0.10	0.10	0.01	1.28	0.07	1.08	7,660	0.12	0.11	hexane
Edge Bander	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-1	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-2	0.00	0.00	0.00	0.00	0.00	16.71	0.00	0.00	negl.	negl.	--
Veneer Room Operations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	formaldehyde
Degreasing	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	--
Total	7.57	8.07	8.07	0.05	8.77	27.62	7.39	10,609	0.50	0.33	formaldehyde

*The baghouses controlling emissions for the woodworking operation have been determined by IDEM to be integral to the process. Therefore, only the potential emissions after controls are considered when determining the permit level.

Limited Potential to Emit (tons/yr) Before Integral Woodworking Controls

	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Woodworking*	90.05	90.05	90.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Boiler BLR-1	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Boiler BLR-2	0.01	0.05	0.05	0.00	0.59	0.03	0.50	718	0.01	0.01	hexane
Boiler BLR-3	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Air Make-up Units	0.12	0.48	0.48	0.04	6.34	0.35	5.33	1,549	0.02	0.02	hexane
Space Heaters	0.02	0.10	0.10	0.01	1.28	0.07	1.08	7,660	0.12	0.11	hexane
Edge Bander	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-1	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-2	0.00	0.00	0.00	0.00	0.00	16.71	0.00	0.00	negl.	negl.	--
Veneer Room Operations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	formaldehyde
Degreasing	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	--
Total	90.22	90.72	90.72	0.05	8.77	27.62	7.39	10,609	0.50	0.33	formaldehyde

*Based on PM/PM10/PM2.5 limits of 5.14 pounds per hour per baghouse (after control).

**TSD Appendix A: Emission Calculations
Emissions Summary
After Administrative Amendment**

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Unlimited Potential to Emit (tons/yr) Before Integral Woodworking Controls

	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Woodworking*	1,013.68	1,013.68	1,013.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Boiler BLR-1	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Boiler BLR-2	0.01	0.05	0.05	0.00	0.59	0.03	0.50	718	0.01	0.01	hexane
Boiler BLR-3	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Air Make-up Units	0.12	0.48	0.48	0.04	6.34	0.35	5.33	1,549	0.02	0.02	hexane
Space Heaters	0.02	0.10	0.10	0.01	1.28	0.07	1.08	7,660	0.12	0.11	hexane
Edge Bander	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-1	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-2	0.00	0.00	0.00	0.00	0.00	16.71	0.00	0.00	negl.	negl.	--
Veneer Room Operations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	formaldehyde
Degreasing	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	--
Total	1,013.84	1,014.34	1,014.34	0.05	8.79	27.61	7.38	10,609	0.49	0.33	formaldehyde

Unlimited Potential to Emit (tons/yr) After Integral Woodworking Controls

	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Woodworking*	10.14	10.14	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Boiler BLR-1	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Boiler BLR-2	0.01	0.05	0.05	0.00	0.59	0.03	0.50	718	0.01	0.01	hexane
Boiler BLR-3	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Air Make-up Units	0.12	0.48	0.48	0.04	6.34	0.35	5.33	1,549	0.02	0.02	hexane
Space Heaters	0.02	0.10	0.10	0.01	1.28	0.07	1.08	7,660	0.12	0.11	hexane
Edge Bander	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-1	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-2	0.00	0.00	0.00	0.00	0.00	16.71	0.00	0.00	negl.	negl.	--
Veneer Room Operations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	formaldehyde
Degreasing	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	--
Total	10.30	10.80	10.80	0.05	8.79	27.61	7.38	10,609	0.49	0.33	formaldehyde

*The baghouses controlling emissions for the woodworking operation have been determined by IDEM to be integral to the process. Therefore, only the potential emissions after controls are considered when determining the permit level.

Limited Potential to Emit (tons/yr) Before Integral Woodworking Controls

	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHG as CO ₂ e	Total HAPs	Worst Single HAP	
Woodworking*	112.57	112.57	112.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Boiler BLR-1	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Boiler BLR-2	0.01	0.05	0.05	0.00	0.59	0.03	0.50	718	0.01	0.01	hexane
Boiler BLR-3	0.01	0.02	0.02	0.00	0.28	0.02	0.24	341	0.01	0.01	hexane
Air Make-up Units	0.12	0.48	0.48	0.04	6.34	0.35	5.33	1,549	0.02	0.02	hexane
Space Heaters	0.02	0.10	0.10	0.01	1.28	0.07	1.08	7,660	0.12	0.11	hexane
Edge Bander	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-1	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	negl.	negl.	--
Hot Melt Coater HMC-2	0.00	0.00	0.00	0.00	0.00	16.71	0.00	0.00	negl.	negl.	--
Veneer Room Operations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	formaldehyde
Degreasing	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	--
Total	112.73	113.23	113.23	0.05	8.79	27.61	7.38	10,609	0.49	0.33	formaldehyde

*Based on PM/PM10/PM2.5 limits of 5.14 pounds per hour per baghouse (after control).

**TSD Appendix A: Emission Calculations
Emissions From Woodworking**

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Unit	Baghouse ID	*Outlet Grain Loading (gr/dscf)	Flow Rate (acfm)	Stack Temp (°F)	Flow Rate (dscfm)	Control Efficiency %	PM/PM10/PM2.5 Emissions**					
							PM/PM10/PM2.5 Emissions After Integral Controls (lbs/hr)*	PM/PM10/PM2.5 Emissions After Integral Controls (tons/yr)*	PM/PM10/PM2.5 Emissions Before Integral Controls (lbs/hr)*	PM/PM10/PM2.5 Emissions Before Integral Controls (tons/yr)*	Limited PM/PM10/PM2.5 Emissions (lbs/hr)*	Limited PM/PM10/PM2.5 Emissions (tons/yr)*
WW-1	BH-1	0.00118	18,000	70	17,932	99.0%	0.18	0.79	18.14	79.44	5.14	22.51
	BH-2	0.00118	34,330	70	34,200	99.0%	0.35	1.52	34.59	151.51	5.14	22.51
	BH-3	0.00118	62,970	70	62,732	99.0%	0.63	2.78	63.45	277.91	5.14	22.51
	BH-4	0.000981	62,970	70	62,732	99.0%	0.53	2.31	52.75	231.04	5.14	22.51
	BH-5	0.0012	61,000	70	60,770	99.0%	0.63	2.74	62.51	273.78	5.14	22.51
Total							2.31	10.14	231.43	1013.68	25.70	112.57

*The outlet grain loading (gr/dscf) above is provided by the source and is based on stack test results (April 16, 2003).

**Assume PM emissions = PM10 emissions = PM2.5 emissions

In October 1993 a Final Order Granting Summary Judgement was signed by Administrative Law Judge ("ALJ") Garretson 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 were 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.

Methodology

$$\text{Flow Rate (dscfm)} = [\text{Flow Rate (acfm)}] * [(460 + 68^\circ\text{F}) / (460 + 70^\circ\text{F})]$$

$$\text{PM/PM10/PM2.5 Emissions After Integral Controls (lbs/hr)} = [\text{Outlet Grain Loading (gr/dscf)}] * [\text{Flow Rate (dscfm)}] * [60 \text{ min/hr}] * [1\text{ lb}/7,000 \text{ grains}]$$

$$\text{PM/PM10/PM2.5 Emissions After Integral Controls (tons/yr)} = [\text{PM/PM10/PM2.5 Emissions After Integral Controls (lbs/hr)}] * [8,760 \text{ hrs/yr}] * [1\text{ ton}/2,000 \text{ lbs}]$$

$$\text{PM/PM10/PM2.5 Emissions Before Integral Controls (lbs/hr)} = [\text{PM/PM10/PM2.5 Emissions After Integral Controls (lbs/hr)}] / [1 - \text{Control Efficiency}]$$

$$\text{PM/PM10/PM2.5 Emissions Before Integral Controls (tons/yr)} = [\text{PM/PM10/PM2.5 Emissions After Integral Controls (tons/yr)}] / [1 - \text{Control Efficiency}]$$

$$\text{Limited PM/PM10/PM2.5 Emissions (tons/yr)} = [\text{Limited PM/PM10/PM2.5 Emissions (lbs/hr)}] * [8,760 \text{ hrs/yr}] * [1\text{ ton}/2,000 \text{ lbs}]$$

**TSD Appendix A: Emission Calculations
Natural Gas Combustion Only**

MM BTU/HR <100

Company Name: MasterBrand Cabinets, Inc., Plant 5

Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542

Administrative Amendment No.: 037-33560-00111

Reviewer: Marcia Earl

Date: September 2013

Emission Unit	Heat Input Capacity MMBtu/hr	HHV mmBtu	Potential Throughput MMCF/yr
		mmscf	
Boiler BLR-1	0.645	1000	5.7
Boiler BLR-2	1.357	1000	11.9
Boiler BLR-3	0.645	1000	5.7
Space Heaters/Hot Water Heater	2.930	1000	25.7
Air Make-Up Units	14.486	1000	126.9

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emissions in tons/yr					**see below		
Boiler BLR-1	0.01	0.02	0.02	0.002	0.28	0.02	0.24
Boiler BLR-2	0.01	0.05	0.05	0.004	0.59	0.03	0.50
Boiler BLR-3	0.01	0.02	0.02	0.002	0.28	0.02	0.24
Space Heaters/Hot Water Heater	0.02	0.10	0.10	0.008	1.28	0.07	1.08
Air Make-Up Units	0.12	0.48	0.48	0.038	6.34	0.35	5.33
Total	0.17	0.67	0.67	0.05	8.79	0.48	7.38

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

PM2.5 emission factor is filterable and condensable PM2.5 combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See page 4 for HAPs emissions calculations.

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

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr					
Boiler BLR-1	5.9E-06	3.4E-06	2.1E-04	5.1E-03	9.6E-06
Boiler BLR-2	1.2E-05	7.1E-06	4.5E-04	1.1E-02	2.0E-05
Boiler (ID #?)	5.9E-06	3.4E-06	2.1E-04	5.1E-03	9.6E-06
Space Heaters/Hot Water Heater	2.7E-05	1.5E-05	9.6E-04	2.3E-02	4.4E-05
Air Make-Up Units	1.3E-04	7.6E-05	4.8E-03	1.1E-01	2.2E-04
Total	1.8E-04	1.1E-04	6.6E-03	1.6E-01	3.0E-04

Emission Factor in lb/MMcf	HAPs - Metals					Total HAPs
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Potential Emission in tons/yr						
Boiler BLR-1	1.4E-06	3.1E-06	4.0E-06	1.1E-06	5.9E-06	5.3E-03
Boiler BLR-2	3.0E-06	6.5E-06	8.3E-06	2.3E-06	1.2E-05	1.1E-02
Boiler (ID #?)	1.4E-06	3.1E-06	4.0E-06	1.1E-06	5.9E-06	5.3E-03
Space Heaters/Hot Water Heater	6.4E-06	1.4E-05	1.8E-05	4.9E-06	2.7E-05	2.4E-02
Air Make-Up Units	3.2E-05	7.0E-05	8.9E-05	2.4E-05	1.3E-04	1.2E-01
Total	4.4E-05	9.7E-05	1.2E-04	3.3E-05	1.8E-04	1.7E-01

Methodology is the same as page 3.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

See Page 5 for Greenhouse Gas calculations.

TSD Appendix A: Emission Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr			
Boiler BLR-1	339	0.01	0.01
Boiler BLR-2	713	0.01	0.01
Boiler (ID #?)	339	0.01	0.01
Space Heaters/Hot Water Heater	1,540	0.03	0.03
Air Make-Up Units	7,614	0.15	0.14
Total	10,545	0.20	0.19
Summed Potential Emissions in tons/yr			
Boiler BLR-1		339	
Boiler BLR-2		713	
Boiler (ID #?)		339	
Space Heaters/Hot Water Heater		1,540	
Air Make-Up Units		7,614	
Total		10,546	
CO2e Total in tons/yr			
Boiler BLR-1		341	
Boiler BLR-2		718	
Boiler (ID #?)		341	
Space Heaters/Hot Water Heater		1,549	
Air Make-Up Units		7,660	
Total		10,609	

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**TSD Appendix A: Emission Calculations
VOC Emissions
Cold Solvent Degreaser**

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Uncontrolled

Unit	*Solvent Used	Density (lbs/gal)	Weight % VOC	Maximum Usage (gal/hr)	PTE of VOC (lbs/hr)	PTE of VOC (tons/yr)
Cold Cleaner Degreaser	Safety Kleen 150	6.6	100.00%	0.00	0.026	0.12

* These solvents do not contain any regulated HAPs.

METHODOLOGY

PTE of VOC (lbs/day) = Density (lbs/gal) * Weight % of VOC * Maximum Usage (gal/day)

PTE of VOC (tons/yr) = Density (lbs/gal) * Weight % VOC * Maximum Usage (gal/day) 365 days/yr * 1 ton/2000 lbs

**TSD Appendix A: Emission Calculations
VOC Emissions
From Surface Coating Operations**

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Emission Unit	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Maximum Usage (lb/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Edge Banding Operations	Jowatherm 288.60	10.8	0.80%	0.0%	0.8%	0.0%	99.20%	28.60	0.09	0.09	0.23	5.49	1.00	0.00	0.09	100%
Hot Melt Coater HMC-1	Jowatherm 297.90	9.2	0.80%	0.0%	0.8%	0.0%	99.20%	265.50	0.07	0.07	2.12	50.98	9.30	0.00	0.07	100%
Hot Melt Coater HMC-2	Jowatherm 288.60	10.8	0.80%	0.0%	0.8%	0.0%	99.20%	476.80	0.09	0.09	3.81	91.55	16.71	0.00	0.09	100%
Veneer Room Glue	CP0501 UF Resin	10.8	0.00%	0.0%	0.0%	0.0%	99.20%	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%

State Potential Emissions

6.17 148.01 27.01 0.00

METHODOLOGY

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

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

Company Name: MasterBrand Cabinets, Inc., Plant 5
Source Address: 11th Street and Geiger Street, Huntingburg, Indiana 47542
Administrative Amendment No.: 037-33560-00111
Reviewer: Marcia Earl
Date: September 2013

Emission Unit	Material	Density (Lb/Gal)	Usage (lb/hr)	Weight % Vinyl Acetate	Weight % Formaldehyde	Vinyl Acetate Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Total HAPs (ton/yr)
Edge Banding Operations	Jowatherm 288.60	10.8	28.60	0.0001%	0.00%	0.0001	0.00	0.000
Hot Melt Coater	Jowatherm 297.90	9.2	265.50	0.0001%	0.00%	0.001	0.00	0.00
Veneer Room Glue	CP0501 UF Resin	10.83	25.00	0.00%	0.30%	0.000	0.33	0.33
Total State Potential Emissions						0.00	0.33	0.33

METHODOLOGY

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Sally Gaines
MasterBrand Cabinets, Inc., Plant 5
1008 N Greiger Street
Huntingburg, IN 47542

DATE: October 3, 2013

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

SUBJECT: Final Decision
First Administrative Amendment to MSOP
037-33560-00111

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:
Steven J. Clifton, Responsible Official
Erin Surinak, Environmental Resources Management
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.

Final Applicant Cover letter.dot 6/13/2013

Mail Code 61-53

IDEM Staff	PWAY 10/3/2013 MasterBrand Cabinets, Inc., Plant 5 037-33560-00111 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

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											Remarks
1		Sally Gaines MasterBrand Cabinets, Inc., Plant 5 1008 N Geiger St Huntingburg IN 47542 (Source CAATS)									
2		Steven J Cifton Sr Mgr Huntingburg Operation MasterBrand Cabinets, Inc., Plant 5 1008 N Geiger St Huntingburg IN 47542 (RO CAATS)									
3		Huntingburg City Council and Mayors Office 508 E 4th St Huntingburg IN 47542-1319 (Local Official)									
4		Dubois County Commissioners One Courthouse Square Jasper IN 47546 (Local Official)									
5		Mr. Alec Kalla 8733 W. Summit Circle Drive French Lick IN 47432 (Affected Party)									
6		DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 (Health Department)									
7		Erin Surinak Environmental Resources Management (ERM) 11350 N Meridian Street Suite 320 Carmel IN 46032 (Consultant)									
8		John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)									
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