



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
*We make Indiana a cleaner, healthier place to live.*

---

Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

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

December 16, 2005

Mr. Michael Decker  
MasterBrand Cabinets, Inc.  
1491 Meridian Road  
Jasper, IN 47547

Re: 037-21626- 00052  
Significant Source Modification to:  
Part 70 Permit No.: T037-5928-00052

Dear Mr. Decker:

MasterBrand Cabinets, Inc. was issued Part 70 operating permit T037-5928-00052 on November 14, 2000 for a wood kitchen, bath and entertainment center cabinet manufacturing operation. A letter requesting changes to this permit was received on August 10, 2005. Pursuant to the provisions of 326 IAC 2-7-10.5 a significant source modification to this permit is hereby approved for construction at the source.

The modification consists of the addition to the existing operation of the following equipment:

- a) One (1) woodworking operation, identified as MC4, equipped with a baghouse for particulate control, identified as Baghouse MC4, exhausting to stack C4, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 actual cubic feet per minute and a capacity of 43,600 pounds of wood per hour.
- b) Two (2) bulk storage tanks, each with a capacity of five thousand (5,000) gallons. The tanks will store sealer and clear coat.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions  
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 (Revocation), 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 revision of the source=s Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation is not approved until the significant permit modification has been issued.

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 call (800) 451-6027, and ask for Walter Habeeb or extension 2 - 8422, or dial (317) 232- 8422.

Sincerely,  
Original signed by

Paul Dubenetzky, Assistant Commissioner  
Permits Branch  
Office of Air Quality

Attachments

WVH

cc: File – Dubois County  
U.S. EPA, Region V  
Southwest Regional Office  
Air Compliance Inspector – Gene Kelso



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**PART 70 SIGNIFICANT SOURCE MODIFICATION  
OFFICE OF AIR QUALITY**

MasterBrand Cabinets, Inc. - Decora Plant #3  
1491 Meridian Road  
Jasper, Indiana 47547

(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. those conditions.

Second Significant Source Modification No.: T037-21626-00052	
Original signed by: Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: December 16, 2005

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- Quarterly Compliance Monitoring Report**
- Semi-Annual HAP Report**
- Quarterly Report**

## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). 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)]

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The Permittee owns and operates a stationary wood kitchen, bath and entertainment center cabinet manufacturing operation.

Responsible Official: Vice President of Semi-Custom Operations  
Source Address: 1491 Meridian Road, Jasper Indiana 47547  
Mailing Address: 1491 Meridian Road, Jasper Indiana 47547  
SIC Code: 2434, 2517  
County Location: Dubois  
County Status: Attainment for all criteria pollutants  
Source Status: Part 70 Permit Program  
Major Source, under PSD Rules;  
Major Source, Section 112 of the Clean Air Act

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

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

- (a) Sixteen (16) spray booths consisting of the following:
- (1) Four (4) stain application booths, constructed in 1997, identified as STB1-STB4, with a maximum capacity of 203 units per hour, and with emissions controlled by dry filters and exhausting to stacks ST1-ST6.
  - (2) Four (4) toner application booths, constructed in 1997, identified as TB1-TB4, with a maximum capacity of 203 units per hour, and with emissions controlled by dry filters and exhausting to stacks T1-T6.
  - (3) Four (4) sealer application booths, constructed in 1997, identified as SB1-SB4, with a maximum capacity of 203 units per hour, and with emissions controlled by dry filters and exhausting to stacks S1-S4.
  - (4) Two (2) topcoat application booths, constructed in 1997, identified as TCB1 and TCB2, with a maximum capacity of 203 units per hour, and with emissions controlled by dry filters and exhausting to stacks TC1-TC2.
  - (5) One (1) parts booth, constructed in 1997, identified as PB1, with a maximum capacity of 203 units per hour, and with emissions controlled by dry filters and exhausting to stacks P1 and P2.
  - (6) One (1) spray booth, constructed in 1986, identified as GB-1, with the ability to spray water-based glue in half of the booth and solvent-based primer in the other half, with a maximum capacity of 203 units per hour, and with emissions controlled by a dry filter and exhausting to stack SG1.

- (b) Six (6) woodworking operations, consisting of the following:
- (1) One (1) woodworking operation, identified as MC3, equipped with a baghouse for particulate control, identified as Baghouse MC3, exhausting to stack C2, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.
  - (2) One (1) woodworking operation, constructed in 1997, identified as TDC Sanding, equipped with a baghouse for particulate control, identified as Baghouse TDC, exhausting to Stack TDC, with a grain loading of 0.01 grains per dry standard cubic feet at a flow rate of 48,000 acfm and a capacity of 43,600 pounds of wood per hour.
  - (3) Three (3) woodworking operations, constructed in 1997, identified as MC11, SAC10, and SDC9, equipped with a baghouse for particulate control, identified as Baghouse MC1, exhausting to stack MC1, with a grain loading of and 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm, capacity: 43,600 pounds of wood per hour to MC11, 16,132 pounds of wood per hour to SAC10, 2,850 pounds of wood per hour to SDC9, and 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm.
  - (4) One (1) woodworking operation, identified as MC4, equipped with a baghouse for particulate control, identified as Baghouse MC4, exhausting to stack C4, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.
- (c) Finish Line B
- (1) One (1) surface coating booth, identified as SCB1-B, using high volume low pressure (HVLP) spray guns and air assisted airless spray application, with emissions controlled by dry filters and exhausting to stack SC1-B.
  - (2) One (1) surface coating booth, identified as SCB2-B, using high volume low pressure (HVLP) spray guns and air assisted airless spray application, with emissions controlled by dry filters and exhausting to stack SC2-B.
  - (3) One (1) surface coating booth, identified as SCB3-2, using high volume low pressure (HVLP) spray guns and air assisted airless spray application, with emissions controlled by dry filters and exhausting to stack SC3-B.
  - (4) One (1) surface coating booth, identified as SCB4-B, using high volume low pressure (HVLP) spray guns and air assisted airless spray application, with emissions controlled by dry filters and exhausting to stack SC4-B.
  - (5) One (1) surface coating booth, identified as SCB5-B, using high volume low pressure (HVLP) spray guns and air assisted airless spray application, with emissions controlled by dry filters and exhausting to stack SC5-B.
  - (6) Three (3) natural gas-fired ovens, identified as SC01-B, SC02-B and SC03-B rated at 0.500, 0.500 and 0.800 million British thermal units per hour, respectively, and three electric infrared ovens, identified as IR1-B, IR2-B and IR3-B. (deemed insignificant activities)

This source consists of the following insignificant activities:

- d) Two (2) bulk storage tanks, each with a capacity of five thousand (5,000) gallons. The tanks will store sealer and clear coat.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

(b) Six (6) woodworking operations, consisting of the following:

- (1) One (1) woodworking operation, constructed in 2004, identified as MC3, equipped with a baghouse for particulate control, identified as Baghouse MC3, exhausting to stack C2, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.
- (2) One (1) woodworking operation, constructed in 1997, identified as TDC Sanding, equipped with a baghouse for particulate control, identified as Baghouse TDC, exhausting to Stack TDC, with a grain loading 0.01 grains per dry standard cubic feet at a flow rate of 48,000 acfm and a capacity of 43,600 pounds of wood per hour.
- (3) Three (3) woodworking operations, constructed in 1997, identified as MC11, SAC10, and SDC9, equipped with a baghouse for particulate control, identified as Baghouse MC1, exhausting to stack MC1, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour to MC11, 16,132 pounds of wood per hour to SAC10, 2,850 pounds of wood per hour to SDC9.
- (4) One (1) woodworking operation, identified as MC4, equipped with a baghouse for particulate control, identified as Baghouse MC4, exhausting to stack C4, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.

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

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

#### D.2.1 PSD Limits [326 IAC 2-2]

- (a) The PM emission rate from the woodworking operation, identified as MC3, shall not exceed 5.23 pounds per hour. The PM emission rate from the woodworking operation, identified as MC4, shall not exceed 5.7 pounds per hour.
- (b) The PM10 emission rate from each of the woodworking operations, identified as MC3 and MC4, shall not exceed 3.40 pounds per hour.

Compliance with these limits renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

#### D.2.2 Particulate Rules: Particulate Emissions Limitations [326 IAC 6.5-1]

The particulate matter (PM) from all woodworking operations listed, shall each be limited to 0.03 grain per dry standard cubic foot (dscf) for each unit.

#### D.2.3 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 this facility and its control device.

## **Compliance Determination Requirements**

### D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within five (5) years of May 11, 2005 the Permittee shall conduct performance testing on the woodworking operations, identified as MC3 and MC4, in order to demonstrate compliance with Conditions D.2.1 and D.2.2. The Permittee shall perform PM and PM10 testing for the baghouses controlling the woodworking operations, identified as MC3 and MC4, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C- Performance Testing.

### D.2.5 Particulate Matter (PM)

The baghouses for all woodworking operations being used for PM control shall be in operation at all times the woodworking operations are in operation.

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

### D.2.6 Visible Emissions Notations [40 CFR 64 CAM]

- (a) Daily visible emission notations of the baghouse stack exhausts C2, TDC, MC1, and C4 shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

### D.2.7 Baghouse Inspections [40 CFR 64 CAM]

An inspection shall be performed each calendar quarter of all bags controlling the woodworking operations, 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.2.8 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

- (b) Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance

Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion.

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

#### D.2.9 Record Keeping Requirements

- (a) To document compliance with Condition D.2.6, the Permittee shall maintain records of daily visible emission notations of the baghouse stack exhaust.
  - (b) To document compliance with Condition D.2.7, the Permittee shall maintain records of the results of the inspections required under Condition D.2.7 and the dates the vents are redirected.
  - (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
-

#### **SECTION D.4 FACILITY OPERATION CONDITIONS**

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

**Insignificant activities:**

- d) Two (2) bulk storage tanks, each with a capacity of five thousand (5,000) gallons. The tanks will store sealer and clear coat.

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

**Emission Limitations and Standards [326 IAC 2-4(1)]**

There are no applicable requirements for these insignificant activities.

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

**Addendum to the  
Technical Support Document (TSD) for a Part 70 Significant  
Source Modification and a Significant Permit Modification**

**Source Background and Description**

Source Name:	MasterBrand Cabinets, Inc. - Decora Plant #3
Source Location:	1491 Meridian Road, Jasper, Indiana 47547
County:	Dubois
SIC Code:	2434
Operation Permit No.:	T 037-5928-00052
Operation Permit Issuance Date:	November 11, 2000
Significant Source Modification No.:	SSM 037-21626-00052
Significant Permit Modification No.:	SPM 037-21717-00052
Permit Reviewer:	Walter Habeeb

On November 7, 2005, the Office of Air Quality (OAQ) has a notice published in The Herald in Jasper, Indiana stating that MasterBrand Cabinets, Inc. had applied for a Part 70 Significant Permit Modification and a Part 70 Significant Source Modification to construct and operate one (1) woodworking operation, identified as MC4 and two (2) 5,000 gallon bulk storage tanks for storage of sealer and clear coat. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On November 30, 2005, MasterBrand Cabinets, Inc. submitted comments on the proposed Significant Permit Modification and the Significant Source Modification. The summary of the comments is as follows (bolded language has been added, the language with a line through it has been deleted):

**Comment 1:**

**Condition D.2.4 Testing Requirements:** We do not believe that testing should be required for the proposed baghouse identified as Baghouse MC4. An identical baghouse, MC3, was installed in 2005 and IDEM-witnessed stack testing was conducted on May 11, 2005. The test results show that the PM/PM10 emission rate from the baghouse is 0.374 lb/hour and the grain loading is 0.00129 gr/dscf. The emission rate and the grain loading were significantly less than the limits established in the permit. Both baghouses MC3 and MC4 are rated at 61,000 acfm and the woodworking operations controlled by these baghouses have a capacity of 43,600 pounds of wood per hour. Since the baghouses are identical and Baghouse MC3 was in compliance with the permit limits, testing of Baghouse MC4 is not warranted.

**Response 1:**

The results of the May 11, 2005 test on baghouse MC3 have been reviewed by the IDEM and were found to be 0.38 lbs/hr for both PM and PM10. This is well below the allowable limit of 5.23 lbs/hr for PM and 3.40 lbs/hr for PM10. The proposed baghouse MC4 is identical to MC3. Because the baghouses are identical and Baghouse MC3 was in compliance with the permit limits, testing of Baghouse MC4 will not be required by the IDEM at this time and Condition D.2.4 Testing Requirements will be revised to read as follows:

**D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)]**

Within ~~180 days of the startup of~~ **five (5) years of May 11, 2005 the Permittee shall conduct performance testing on** the woodworking operations, identified as MC3 and MC4, in order to demonstrate compliance with Conditions D.2.1 and D.2.2. The Permittee shall perform PM and PM10 testing for the baghouses controlling the woodworking operations, identified as MC3 and MC4, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C- Performance Testing.

**Comment 2:**

**Condition D.2.6 Visible Emission Notations(a):** This condition erroneously references Stack MC4 in conjunction with baghouse MC4. The stack should be identified as C4 and the condition should be changed as follows: "Daily visible emission notations of the baghouse stack exhausts C2, TDC, MC1, and MC4 shall be performed..."

**Response 2:**

Section D.2.6 (a) will be changed to read as follows:

**D.2.6 Visible Emissions Notations [40 CFR 64 CAM]**

- (a) Daily visible emission notations of the baghouse stack exhausts C2, TDC, MC1, and MC4 shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

**Comment 3:**

**Page 5 of 11 of the TSD, Federal Rule Applicability, Item (f) and Page 6 of 11 of the TSD, [326 IAC 8-9-4 (Volatile Organic Liquid Storage Vessels-Standards)]** These two sections erroneously describe the two proposed storage tanks as having a capacity of four thousand (4,000) gallons. The correct capacity is five thousand (5,000) gallons for each tank.

**Response 3:**

IDEM, OAQ agrees that the correct capacity on Page 5 of 11 of the TSD, Federal Rule Applicability, Item (f) and Page 6 of 11 of the TSD, [326 IAC 8-9-4 (Volatile Organic Liquid Storage Vessels-Standards)] should be five thousand (5,000) gallons. However, no changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice period are documented in this Addendum to the Technical Support Document.

## **Compliance Determination Requirements**

### **D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)]**

Within five (5) years of May 11, 2005 the Permittee shall conduct performance testing on the woodworking operations, identified as MC3 and MC4, in order to demonstrate compliance with Conditions D.2.1 and D.2.2. The Permittee shall perform PM and PM10 testing for the baghouses controlling the woodworking operations, identified as MC3 and MC4, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C- Performance Testing.

### **D.2.5 Particulate Matter (PM)**

The baghouses for all woodworking operations being used for PM control shall be in operation at all times the woodworking operations are in operation.

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

### **D.2.6 Visible Emissions Notations [40 CFR 64 CAM]**

- (a) Daily visible emission notations of the baghouse stack exhausts C2, TDC, MC1, and C4 shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

### **D.2.7 Baghouse Inspections [40 CFR 64 CAM]**

An inspection shall be performed each calendar quarter of all bags controlling the woodworking operations, 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.2.8 Broken or Failed Bag Detection**

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.
- (b) Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion.



## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for Part 70 Significant Source and Permit Modifications

#### Source Background and Description

**Source Name:** MasterBrand Cabinets, Inc. - Decora Plant #3  
**Source Location:** 1491 Meridian Road, Jasper, Indiana 47547  
**County:** Dubois  
**SIC Code:** 2434  
**Operation Permit No.:** T 037-5928-00052  
**Operation Permit Issuance Date:** November 11, 2000  
**Significant Source Modification No.:** SSM 037-21626-00052  
**Significant Permit Modification No.:** SPM 037-21717-00052  
**Permit Reviewer:** Walter Habeeb

The Office of Air Quality (OAQ) has reviewed a modification application from MasterBrand Cabinets, Inc. - Decora - Plant #3 relating to the construction and operation of the following emission unit and pollution control device:

One (1) woodworking operation, identified as MC4, equipped with a baghouse for particulate control, identified as Baghouse MC4, exhausting to stack C4, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 actual cubic feet per minute and a capacity of 43,600 pounds of wood per hour.

Two (2) bulk storage tanks, each with a capacity of five thousand (5,000) gallons. The tanks will store sealer and clear coat.

#### History

The following permits have been issued to this source:

Administrative Amendment 037-18785-00052, issued April 15, 2004;  
Significant Permit Modification 037-17442-00052, issued February 11, 2004;  
Significant Source Modification 037-17789-00052, issued January 28, 2004;  
Administrative Amendment 037-13574-00052, issued February 9, 2001;  
Administrative Amendment 037-12383-00052, issued June 22, 2000;  
Significant Source Modification 037-12132- 00052, issued August 10, 2000;and  
Part 70 037-5928-00052, issued November 14, 2000

#### Enforcement Issue

There are no pending enforcement actions related to this modification.

#### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
C4	One (1) Woodworking Operation (MC4)	20	4	61,000	70.0

### Recommendation

The staff recommends to the Commissioner that this modification be approved under a Part 70 Significant Source and Significant Permit Modification. This recommendation is based on the following facts and conditions:

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

An application for the purposes of this review were received on August 10, 2005. Additional information was received on September 11, 2005.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations.

### Potential To Emit of Modification

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

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Pollutant	Potential To Emit (tons/year)
PM	2,290.1
PM <sub>10</sub>	1,489
SO <sub>2</sub>	-
VOC	0.06
CO	-
NO <sub>x</sub>	-

### Justification for Modification

The Part 70 Operating Permit is being modified through a Part 70 Significant Source Modification and a Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-7-10.5(f)(4), because this modification has an unrestricted potential to emit greater than twenty-

five (25) tons per year of PM and fifteen (15) tons per year of PM<sub>10</sub>. Pursuant to 326 IAC 2-7-10.5(d)(5)(C)(iii), this modification cannot be limited to less than twenty-five tons per year to qualify as a minor source modification under 326 IAC 2-7-10.5(d) because the unrestricted potential to emit of this modification exceeds the major PSD source thresholds.

Pursuant to 326 IAC 2-7-12(b)(1)(c), a modification where an emission limit determination has been made does not qualify for a minor permit modification. The addition of PSD minor limits constitutes an emission limit determination to the operating permit. Therefore, the proposed operating conditions shall be incorporated into the Part 70 Operating Permit as a Significant Permit Modification (SPM 037-21717-00052) in accordance with 326 IAC 2-7-12(d)(1) since PSD minor PM and PM<sub>10</sub> emission limits will be added to this modification. The Significant Permit Modification will give the source approval to operate the proposed emission unit.

### County Attainment Status

The source is located in Dubois County.

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

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) emissions are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. 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) Dubois County has been classified as nonattainment for PM<sub>2.5</sub> in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions pursuant to the Emission Offset requirements, 326 IAC 2-3. See the State Rule Applicability - Entire Source section.

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

(d) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 the fugitive PM emissions are not counted toward the determination of PSD and Emission Offset applicability.

### Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	Greater Than 250
PM <sub>10</sub>	Greater Than 250
SO <sub>2</sub>	Less Than 250
VOC	Greater Than 250
CO	Less Than 250
NO <sub>x</sub>	Less Than 250

- (a) This existing source is a major stationary source under PSD (326 IAC 2-2) because an attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the 28 listed source categories.
- (b) These emissions are based upon Source Status information on page four (4) of the TSD for Significant Source Modification 037-17789-00052, issued on January 28, 2004.

**Potential to Emit of Modification and Entire Source After Issuance**

The table below summarizes the potential to emit, reflecting all limits, of the significant emission unit after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

Potential To Emit (TPY)						
Process	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>
Woodworking Operation MC4	24.97	14.89	-	-	-	-
Two Storage Tanks	-	-	-	0.06	-	-
Total	24.97	14.89	-	0.06	-	-
PSD Significant Level	25	15	40	40	100	40

This modification to an existing major stationary source is not major because the emissions from the one (1) woodworking operation, identified as MC4, will be limited to less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

**Federal Rule Applicability**

- (a) This significant permit modification does involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 for PM and PM<sub>10</sub>;
- (2) with the potential to emit before controls equal to or greater than the major source threshold for PM and PM<sub>10</sub>;

(2) that is subject to an emission limitation or standard for PM and PM<sub>10</sub>; and

(2) uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are applicable to this modification.

(b) This permit modification is considered a Significant Permit Modification in accordance with 326 IAC 2-7-12(d)(1) an emission limit will be required on the one (1) woodworking operation, identified as MC4, that will assure that the PM emissions do not exceed twenty-five (25) tons per year, and PM<sub>10</sub> emissions do not exceed fifteen (15) tons per year, which will render the requirements of PSD, 326 IAC 2-2, not applicable to this modification.

(c) The pollutant-specific emission unit is a "large unit" as described in 40 CFR 64.5. Therefore, the owner or operator has submitted a CAM plan as part of the permit modification application. Monitoring of the pollutant-specific emission unit will be conducted pursuant to 40 CFR 64. See the Compliance Determination section of this permit for the specific CAM requirements.

(d) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

(e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, 40 CFR 61 and 40 CFR Part 63) applicable to this proposed modification.

(f) Subpart Kb 60.110b - Standards of Performance for Volatile Organic Liquid Storage Tanks (applicability and designation of affected facility)

this  
Subpart Kb (1) The two (2) four thousand (4,000) gallon storage tanks to be constructed under permit are each less than forty (40) cubic meters in volume. Therefore, 60.110b Standards of Performance for Volatile Organic Liquid Storage Tanks does not apply.

#### **State Rule Applicability - Entire Source**

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

Upon issuance of AA 037-13574-00052 on February 9, 2001, Sections D.1 for sixteen (16) surface coating operations and Section D.3 for Finish Line B contained two (2) separate 250 ton per year VOC limits. As a result, from February 9, 2001 to the present date this source has been operating as a major PSD source. Therefore, this modification will be evaluated with respect to the

PSD significant levels for an existing major PSD source.

#### **State Rule Applicability - Individual Facilities**

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

Since this source is considered a major PSD source 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 as follows:

- (a) The PM emission rate from the one (1) woodworking operation, identified as MC4 will not exceed 5.7 pounds per hour, equivalent to 24.97 tons of PM per year.
- (b) The PM<sub>10</sub> emission rate from the one (1) woodworking operation, identified as MC4 will not exceed 3.40 pounds per hour, equivalent to 14.89 tons of PM<sub>10</sub> per year.

Compliance with these emission limits will render the requirements of PSD, 326 IAC 2-2 not applicable.

#### 326 IAC 6.5 -1 (County Specific Particulate Matter Limitations)

Since this source is located in Dubois County, pursuant to 326 IAC 6.5-1-2, the PM emissions from the one (1) proposed woodworking operation, identified as MC4, shall not exceed 0.03 grains per dry standard cubic foot.

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

The potential to emit PM from this source is limited by 326 IAC 6.5-1. Therefore, pursuant to 326 IAC 6-3-1(c)(3), the limitations of 326 IAC 6-3 are not applicable.

#### 326 IAC 8-9-4 (Volatile Organic Liquid Storage Vessels - Standards)

The two (2) four thousand (4,000) gallon storage tanks constructed under this permit are each less than thirty-nine thousand (39,000) gallons in volume with a maximum true vapor pressure less than seventy-five hundredths (0.75) pound per square inch absolute (psia) therefore, the requirements of 326 IAC 8-9-4 are not applicable.

### **Testing Requirements**

Since there are PM and PM<sub>10</sub> emission rate limits to render the requirements of a major PSD modification not applicable to this modification, the following stack testing requirement will be incorporated into this modification:

Within 180 days of the startup of the one (1) woodworking operation, identified as MC4, in order to demonstrate compliance with the 326 IAC 6.5-1 and with limits for PM and PM<sub>10</sub>, the Permittee shall perform PM and PM<sub>10</sub> testing of the baghouse controlling the woodworking operation, identified as MC4, utilizing methods as approved by the Commissioner. This test will be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C- Performance Testing.

### **Compliance Requirements**

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

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also 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.

This new woodworking operation, MC4, is subject to 40 CFR 64 (CAM). The following monitoring conditions, which are necessary to satisfy the requirements of 40 CFR 64 (CAM), were included in the CAM plan submitted by MasterBrand Cabinets, Inc.:

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

The one (1) proposed woodworking operation, identified as MC4 has applicable compliance monitoring conditions as specified below:

- (a) Daily visible emissions notations of the one (1) proposed woodworking operation MC4 stack exhaust C4 shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (b) An inspection shall be performed each calendar quarter of all bags controlling the one (1) woodworking operation MC4 when venting to the atmosphere. A bag-house inspection shall be performed within three (3) months of redirecting vents to the atmosphere and every three (3) months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.
- (c) In the event that bag failure has been observed:
  - (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. If operations continue after bag failure is observed and it will be 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.
  - (2) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag

failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

- (d) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the baghouse associated with the one (1) proposed woodworking operation (MC4) must operate properly to ensure compliance with 326 IAC 2-2, 326 IAC 5-1, 326 IAC 6.5-1 and 326 IAC 2-7 (Part 70).

### Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in **bold**):

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

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

- (b) ~~Five (5)~~ **Six (6)** Woodworking operations, consisting of the following:

(1) One (1) woodworking operation, identified as MC3, equipped with a baghouse for particulate control, identified as Baghouse MC3, exhausting to stack C2, ~~capacity:~~ **with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.**

(2) One (1) woodworking operation, constructed in 1997, identified as TDC Sanding, using a baghouse for particulate control, identified as Baghouse TDC, exhausting to Stack TDC, ~~capacity: 43,600 pounds of wood per hour and~~ **with a grain loading of 0.01 grains per dry standard cubic feet at a flow rate of 48,000 acfm and a capacity of 43,600 pounds of wood per hour.**

(3) Three (3) woodworking operations, constructed in 1997, identified as MC11, SAC10 and SDC9, equipped with a baghouse for particulate control, identified as Baghouse MC1, exhausting to stack MC1, **with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm**, capacity: 43,600 pounds of wood per hour to MC11, 16,132 pounds of wood per hour to SAC10, 2,850 pounds of wood per hour to SDC9.

**(4) One (1) woodworking operation, identified as MC4, equipped with a baghouse for particulate control, identified as Baghouse MC4, exhausting to stack C4, with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.**

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

~~This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1 (21) that have applicable requirements.~~ **This source consist of the following insignificant activities:**

**a) Two (2) bulk storage tanks, each with a capacity of five thousand (5,000) gallons. The tanks will store sealer and clear coat.**

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

(b) ~~Five (5)~~ **Six (6)** woodworking operations, consisting of the following:

(1) One (1) woodworking operation, identified as MC3, equipped with a baghouse for particulate control, identified as Baghouse MC3, exhausting to stack C2, ~~capacity:~~ **with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.**

(2) One (1) woodworking operation, constructed in 1997, identified as TDC Sanding, using a baghouse for particulate control, identified as Baghouse TDC, exhausting to Stack TDC, ~~capacity: 43,600 pounds of wood per hour and~~ **with a grain loading of 0.01 grains per dry standard cubic feet at a flow rate of 48,000 acfm and a capacity of 43,600 pounds of wood per hour.**

(3) Three (3) woodworking operations, constructed in 1997, identified as MC11, SAC10 and SDC9, equipped with a baghouse for particulate control, identified as Baghouse MC1, exhausting to stack MC1, **with a grain loading of 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm**, capacity: 43,600 pounds of wood per hour to MC11, 16,132 pounds of wood per hour to SAC10, 2,850 pounds of wood per hour to SDC9, ~~and 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm.~~

(4) **One (1) woodworking operation, identified as MC4, equipped with a baghouse for particulate control, identified as Baghouse MC4, exhausting to stack C4, capacity: 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm and a capacity of 43,600 pounds of wood per hour.**

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

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

D.2.1 PSD Limits [326 IAC 2-2]

(a) The PM emission rate from the ~~one (1)~~ woodworking operation, identified as MC3, shall not exceed 5.23 pounds per hour., ~~equivalent to 22.9 tons of PM per year and 0.01 grains per dry standard cubic foot at a flow rate of 61,000 acfm.~~ **The PM emission rate from the woodworking operation, identified as MC4, shall not exceed 5.7 pounds per hour.**

(b) The PM<sub>10</sub> emission rate from **each of the one (1) woodworking operations, identified as MC3 and MC4**, shall not exceed 3.40 pounds per hour., ~~equivalent to 14.89 tons of PM<sub>10</sub> per year and 0.0065 grains per dry standard cubic foot at a flow rate of 61,000 acfm.~~

Compliance with these limits renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.2.2 Particulate Rules: Particulate Emissions Limitations [326 IAC ~~6-4-2~~ **6.5-1**]

The particulate matter (PM) from all woodworking operations listed, shall each be limited to 0.03

grains per dry standard cubic foot (dscf) for each unit.

#### D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 180 days of the startup of the ~~one (1)~~ woodworking operations, identified as MC3 and **MC4**, in order to demonstrate compliance with Conditions D.2.1 and D.2.2, the Permittee shall perform PM and PM<sub>10</sub> testing for the baghouse controlling the ~~one (1)~~ woodworking operations, identified as MC3, and **MC4**, 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. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C- Performance Testing.

#### D.2.6 Visible Emissions Notations [40 CFR 64 CAM]

- (a) Daily visible emission notations of the baghouse stack exhausts C2, TDC, MC1, and ~~MU2~~ **MC4**, shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

#### D.2.7 Baghouse Inspections [40 CFR 64 CAM]

An inspection shall be performed each calendar quarter of all bags controlling the woodworking operations, 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.

### SECTION D.4 FACILITY OPERATION CONDITIONS

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

##### Insignificant activities:

- a) **Two (2) bulk storage tanks, each with a capacity of five thousand (5,000) gallons. The tanks will store sealer and clear coat.**

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

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

There are no applicable requirements for these insignificant activities.

## **Conclusion**

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 037-21626-00052 and Significant Permit Modification No. 037-21717-00052.

Company Name: MasterBrand Cabinets, Inc.- Decora Plant #3  
 Address: 1491 Meridian Road, Jasper, Indiana 47547  
 Significant Source Modification: 037-21626-00052  
 Significant Permit Modification: 037-21717-00052  
 Plt ID: 037-00052  
 Reviewer: Walter Habeeb  
 Date: September 6, 2005

### Baghouse for Woodworking Operations

Unit ID	Control Efficiency (%)	Grain Loading (gr/scf)	Air Flow Rate (scf/min)	PM Emission Rate Before Control (lb/hr)	PM Emission Rate Before Control (tpy)	PM Emission Rate After Control (lb/hr)	PM Emission Rate After Control (tpy)
MC4	99.0	0.010	61,000	522.9	2290.1	5.23	22.91

Unit ID	Control Efficiency (%)	Grain Loading (gr/scf)	Air Flow Rate (scf/min)	PM10 Emission Rate Before Control (lb/hr)	PM10 Emission Rate Before Control (tpy)	PM10 Emission Rate After Control (lb/hr)	PM10 Emission Rate After Control (tpy)
MC4	99.0	0.0065	61,000	340	1489	3.4	14.89

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

Emission Rate in lb/hr (after controls) = (grains/cu.ft) (1lb/7000grains) (Flow Rate cu ft/min) (60 min/hr)