



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

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

Michael R. Pence
Governor

Carol S. Comer
Commissioner

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a
Part 70 Operating Permit

for Grabill Cabinet in Allen County

Part 70 Operating Permit Renewal No.: T003-36722-00038

Significant Source Modification No.: 003-37217-00038

The Indiana Department of Environmental Management (IDEM) has received an application from Grabill Cabinet, located at 13844 Sawmill Drive Grabill, IN 46741-9481, for a significant source modification and renewal of its Part 70 Operating Permit issued on October 20, 2011. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Grabill Cabinet to make certain changes at its existing source. Grabill Cabinet has applied to add 55 natural gas-fired units and spray gun cleaning operation to its permit and modify all of its existing paint and laminating booths to be able to apply any paint and laminating surface coating at any booth.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Allen County Library (Grabill Branch)
13521 State St.
Grabill, IN 46741

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

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so

that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number Part 70 Operating Permit Renewal No. T003-36722-00038 and SSM 003-37217-00038 in all correspondence.

Comments should be sent to:

Adam Wheat
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 3-8397
Or dial directly: (317) 233-8397
Fax: (317) 232-6749 attn: Adam Wheat
E-mail: awheat@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Adam Wheat of my staff at the above address.



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



Indiana Department of Environmental Management

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Michael R. Pence
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Carol S. Comer
Commissioner

Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Grabill Cabinet
13844 Sawmill Road
Grabill, Indiana 46741**

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No. T003-36722-00038	
Issued by:	Issuance Date:
Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Expiration Date:

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Wood Furniture Manufacturing Operations

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.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 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary hardwood cabinet manufacturing operation.

Source Address: 13844 Sawmill Road, Grabill, Indiana 46741
 General Source Phone Number: (260) 376-1500
 SIC Code: 2434 (Wood Kitchen Cabinets)
 County Location: Allen
 Source Location Status: Attainment for all criteria pollutants
 Source Status: Part 70 Operating Permit Program
 Minor Source, under PSD and Emission Offset Rules
 Major Source, Section 112 of the Clean Air Act
 Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(14)]

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

- (a) Fourteen (14) surface coating and laminating booths, each equipped with HVLP spray guns, using dry filters to control particulate emissions, with emissions exhausting through stacks, as identified in the following table:

Booth ID #	Date Constructed/Modified	Application Method	Control Device	Stack/Vent ID#
SB-1	1985	HVLP	Dry Filter	S-9
SB-2	1985	HVLP	Dry Filter	S-2
SB-3	1985	HVLP	Dry Filter	S-3
SB-4	2000	HVLP	Dry Filter	S-4
SB-5	2000	HVLP	Dry Filter	S-5
SB-6	2000	HVLP	Dry Filter	S-6
SB-7	2000	HVLP	Dry Filter	S-7
SB-8	2000	HVLP	Dry Filter	S-8
SB-9	2000	HVLP	Dry Filter	S-9
SB-10	1985	Low Pressure Spray	Dry Filter	S-10
SB-11	1985	Low Pressure Spray	Dry Filter	S-11
SB-12	2000	HVLP	Dry Filter	S-12
SB-14	2016	HVLP	Dry Filter	S-14
SB-15	1985	Low Pressure Spray	Dry Filter	S-15

Under the National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations (40 CFR 63, Subpart JJ), the fourteen (14) surface coating and laminating booths are considered to be existing wood furniture surface coating operations.

- (b) Research and development surface coating booth, identified as SB-13, consisting of one (1) insignificant surface coating booth used for research and development activity and developing new coating schemes, installed in 2001, exhausting to stack S-13, coating a maximum of 5 units per hour. [NESHAP, Subpart JJ]
- (c) Woodworking operations, consisting of various woodworking machines, with a maximum process weight of 6,500 pounds per hour, with emissions controlled by cyclones and/or baghouses, as specified in the following table.

Control Device ID	Control type	Installation year	Maximum Capacity (cfm)	Stack/Vent ID
DC-1	cyclone/baghouse	1985	9,000	Indoors
DC-2	cyclone/baghouse	1985	16,000	Indoors
DC-3	cyclone/baghouse	1985	55,000	DC-3/Indoors during the winter
DC-4	dust collector/rotoclone	2000	14,000	Indoors
DC-5	dalmatic baghouse	2000	10,000	Indoors
DC-6	dust collector	2000	4,000	Indoors
DC-7	return dust collector	2000	4,000	Indoors
DC-8	return dust collector	2000	4,000	Indoors
DC-9	return dust collector	2000	2,200	Indoors
DC-10	return dust collector	1985	4,000	Indoors
DC-11	return dust collector	1990	5,500	Indoors
DC-12	cyclone dust collector	2000	4,488	Indoors
DC-13	cyclone/return dust collector	2000	10,000	Indoors
DC-14	return dust collector	2000	8,000	Indoors
DC-15	dust collector	2000	2,200	Indoors

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

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

- (a) Sixteen (16) natural gas-fired air make up units, identified as SH-1 through SH-16, with a maximum heat input capacity of 0.15 MMBtu/hr each, each unit constructed in 2000 and each exhausting to vents V-1 through V-16 respectfully.
- (b) One (1) natural gas-fired space heater, identified as SH-17, with a maximum heat input capacity of 5.30 MMBtu/hr constructed in 2000, and exhausting indoors.
- (c) One natural gas fired air make up unit, identified as SH-18, with a maximum heat input capacity of 5.30 MMBtu/hr constructed in 2000, and exhausting indoors.
- (d) Five (5) natural gas-fired space heaters, identified as SH-19 through SH-23, with a maximum heat input capacity of 0.06 MMBtu/hr each, each unit constructed in 1995 and each exhausting to vents V-19 through V-23 respectfully.
- (e) Eight (8) natural gas-fired space heaters, identified as SH-24 through SH-31, with a maximum heat input capacity of 0.04 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-24 through V-31 respectfully.
- (f) Eight (8) natural gas-fired space heaters, identified as SH-32 through SH-39, with a maximum heat input capacity of 0.04 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-32 through V-39 respectfully.

- (g) Six (6) natural gas-fired space heaters, identified as SH-40 through SH-45, with a maximum heat input capacity of 0.1 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-40 through V-45 respectfully.
- (h) Six (6) natural gas-fired space heaters, identified as SH-46 through SH-51, with a maximum heat input capacity of 0.120 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-46 through V-51 respectfully.
- (i) One (1) natural gas-fired self-contained heating unit, identified as SH-52, with a maximum heat input capacity of 1.29 MMBtu/hr, constructed in 2000 and exhausting to stack ID S-12.
- (j) Three (3) natural gas-fired office forced air furnaces, identified as SH-53 through SH-55 with a maximum heat input capacity of 0.120 MMBtu/hr each, each unit constructed in 2000 and each exhausting to stack IDs S-53 through S-55 respectively.
- (k) One (1) spray gun cleaning operation, identified as GC-1, approved in 2016 for construction, with a maximum throughput of 450 gallons of solvent per year, uncontrolled, and exhausting indoors.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, 003-36722-00038, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7][IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

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

and

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

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

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

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

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

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

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

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to

be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to 003-36722-00038 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

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

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as

such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1][IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

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

The Permittee shall not operate an incinerator 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.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]

- (a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.10 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. 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 [326 IAC 2-7-5][326 IAC 2-7-6]

C.11 Risk Management Plan [326 IAC 2-7-5(11)][40 CFR 68]

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

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.13 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(33) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.14 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (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. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

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.15 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.16 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

- (a) Fourteen (14) surface coating and laminating booths, each equipped with HVLP spray guns, using dry filters to control particulate emissions, with emissions exhausting through stacks, as identified in the following table:

Booth ID #	Date Constructed/Modified	Application Method	Control Device	Stack/Vent ID#
SB-1	1985	HVLP	Dry Filter	S-9
SB-2	1985	HVLP	Dry Filter	S-2
SB-3	1985	HVLP	Dry Filter	S-3
SB-4	2000	HVLP	Dry Filter	S-4
SB-5	2000	HVLP	Dry Filter	S-5
SB-6	2000	HVLP	Dry Filter	S-6
SB-7	2000	HVLP	Dry Filter	S-7
SB-8	2000	HVLP	Dry Filter	S-8
SB-9	2000	HVLP	Dry Filter	S-9
SB-10	1985	Low Pressure Spray	Dry Filter	S-10
SB-11	1985	Low Pressure Spray	Dry Filter	S-11
SB-12	2000	HVLP	Dry Filter	S-12
SB-14	2016	HVLP	Dry Filter	S-14
SB-15	1985	Low Pressure Spray	Dry Filter	S-15

Under the National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations (40 CFR 63, Subpart JJ), the fourteen (14) surface coating and laminating booths are considered to be existing wood furniture surface coating operations.

- (b) Research and development surface coating booth, identified as SB-13, consisting of one (1) insignificant surface coating booth used for research and development activity and developing new coating schemes, installed in 2001, exhausting to stack S-13, coating a maximum of 5 units per hour. [NESHAP, Subpart JJ]

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

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

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

Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), when applying surface coatings to wood furniture and cabinets in the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15), the Permittee shall apply all coating material, with the exception of no more than ten (10) gallons of coating per day used for touch-up and repair operations, using one (1) or more of the following application methods:

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

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

D.1.2 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.1.3 PSD Minor Limit [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the total combined VOC input to the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) shall not exceed 225 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

Compliance with this limit, in conjunction with the potential to emit VOC from all other emission units at this source, shall limit the source-wide VOC emissions to less than 250 tons per 12 consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

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

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

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

D.1.5 Particulate

In order to assure compliance with Condition D.1.2, particulate from the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) shall be controlled by a dry particulate filter, and the Permittee shall operate the filter in accordance with the manufacturer's specifications.

D.1.6 Volatile Organic Compounds

Compliance with the VOC input limitation contained in Condition D.1.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.1.7 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters associated with the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15). To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks while one or more of the booths are in operation. If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.8 Record Keeping Requirement

- (a) To document the compliance status with Conditions D.1.3 and D.1.6, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC input limit established in Condition D.1.3. Records necessary to demonstrate compliance shall be available no later than 30 days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
- (2) The amount of coating material and solvent less water used on a monthly basis.
- (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
- (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
- (3) The cleanup solvent usage for each month.
- (4) The total VOC input each month and each compliance period.
- (b) To document the compliance status with Condition D.1.7, the Permittee shall maintain a log of weekly overspray observations, and the daily and monthly inspections required by Condition D.1.7.
- (c) Section C – General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.3 shall be submitted using the reporting form located at the end of this permit, or its equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Section D.2 EMISSIONS UNIT OPERATION CONDITIONS

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

(c) Woodworking operations, consisting of various woodworking machines, with a maximum process weight of 6,500 pounds per hour, with emissions controlled by cyclones and/or baghouses, as specified in the following table.

Control Device ID	Control Type	Installation Year	Maximum Capacity (cfm)	Stack/Vent ID
DC-1	cyclone/baghouse	1985	9,000	Indoors
DC-2	cyclone/baghouse	1985	16,000	Indoors
DC-3	cyclone/baghouse	1985	55,000	DC-3/Indoors during the winter
DC-4	dust collector/rotoclone	2000	14,000	Indoors
DC-5	dalmatic baghouse	2000	10,000	Indoors
DC-6	dust collector	2000	4,000	Indoors
DC-7	return dust collector	2000	4,000	Indoors
DC-8	return dust collector	2000	4,000	Indoors
DC-9	return dust collector	2000	2,200	Indoors
DC-10	return dust collector	1985	4,000	Indoors
DC-11	return dust collector	1990	5,500	Indoors
DC-12	cyclone dust collector	2000	4,488	Indoors
DC-13	cyclone/return dust collector	2000	10,000	Indoors
DC-14	return dust collector	2000	8,000	Indoors
DC-15	dust collector	2000	2,200	Indoors

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

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

D.2.1 Particulate [326 IAC 6-3-2]

In order to assure that each of the woodworking operations is not subject to the requirements of 326 IAC 6-3-2, the integral dust collectors for particulate control shall be in operation and control emissions from each of the woodworking operations at all times that each of the woodworking operations is in operation.

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

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

D.2.3 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Condition D.2.1, the dust collectors, cyclones and baghouses for particulate control shall be in operation and control emissions from the woodworking operations at all times that the woodworking operations are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also

include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.2.4 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhaust from the woodworking operations controlled by cyclone/baghouse DC-3 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.2.5 Baghouse Inspections

An inspection shall be performed semiannually of all bags controlling the woodworking operations controlled by dust collectors DC-1 through DC-15 when venting to the indoors. All defective bags shall be replaced.

D.2.6 Broken or Failed Bag Detection

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit have 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 B - Emergency Provisions).

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

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

D.2.7 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.4, the Permittee shall maintain daily records of the visible emission notations of the stack exhaust from the woodworking operations controlled by cyclone/baghouse DC-3 when venting to the atmosphere. The Permittee shall include in its daily record when a visible emission notation is not taken

and the reason for the lack of a visible emission notation (e.g., the process did not operate that day).

- (b) To document the compliance status with Condition D.2.5 , the Permittee shall maintain records of the results of the inspections required under Condition D.2.5 when venting to the indoors.
- (c) Section C – General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (k) One (1) spray gun cleaning operation, identified as GC-1, approved in 2016 for construction, with a maximum throughput of 450 gallons of solvent per year, uncontrolled, and exhausting indoors.

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

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

D.3.1 Volatile Organic Compound (VOC) Limitations [326 IAC 8-3]

In order to render the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations) not applicable, the VOC input to the spray gun cleaning operation (GC-1) shall be less than fifteen (15) pounds per day of VOC. Compliance with this limit shall render the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations) not applicable to the spray gun cleaning operation (GC-1).

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

D.3.2 Volatile Organic Compounds [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC input limitation contained in Condition D.3.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.3.3 Record Keeping Requirement

- (a) To document the compliance status with Conditions D.3.1, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC input limit established in Condition D.3.1.
- (1) The VOC content of each solvent used.
 - (2) The amount of solvent used on a daily basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, VOC content, and amount of solvent used.
- (b) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Fourteen (14) surface coating and laminating booths, each equipped with HVLP spray guns, using dry filters to control particulate emissions, with emissions exhausting through stacks, as identified in the following table:

Booth ID #	Date Constructed/Modified	Application Method	Control Device	Stack/Vent ID#
SB-1	1985	HVLP	Dry Filter	S-9
SB-2	1985	HVLP	Dry Filter	S-2
SB-3	1985	HVLP	Dry Filter	S-3
SB-4	2000	HVLP	Dry Filter	S-4
SB-5	2000	HVLP	Dry Filter	S-5
SB-6	2000	HVLP	Dry Filter	S-6
SB-7	2000	HVLP	Dry Filter	S-7
SB-8	2000	HVLP	Dry Filter	S-8
SB-9	2000	HVLP	Dry Filter	S-9
SB-10	1985	Low Pressure Spray	Dry Filter	S-10
SB-11	1985	Low Pressure Spray	Dry Filter	S-11
SB-12	2000	HVLP	Dry Filter	S-12
SB-14	2016	HVLP	Dry Filter	S-14
SB-15	1985	Low Pressure Spray	Dry Filter	S-15

Under the National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations (40 CFR 63, Subpart JJ), the fourteen (14) surface coating and laminating booths are considered to be existing wood furniture surface coating operations.

- (b) Research and development surface coating booth, identified as SB-13, consisting of one (1) insignificant surface coating booth used for research and development activity and developing new coating schemes, installed in 2001, exhausting to stack S-13, coating a maximum of 5 units per hour. [NESHAP, Subpart JJ]

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

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

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

- (a) Pursuant to 40 CFR 63.809, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, as specified in Table 1 of 40 CFR Part 63, Subpart JJ in accordance with the schedule in 40 CFR 63, Subpart JJ.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.1.2 National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations [40 CFR Part 63, Subpart JJ][326 IAC 20-14]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart JJ (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 20-14, for the emission unit(s) listed above:

- (1) 40 CFR 63.800(a), (c), (d), (e), and (g)
- (2) 40 CFR 63.801
- (3) 40 CFR 63.802(a)
- (4) 40 CFR 63.803(a) through (g)
- (5) 40 CFR 63.803(h)(1) through (3), (h)(5), (h)(6)
- (6) 40 CFR 63.803(i) through (l)
- (7) 40 CFR 63.804(a)(1), (a)(2) and (a)(4)
- (8) 40 CFR 63.804(b)
- (9) 40 CFR 63.804(c)(1)
- (10) 40 CFR 63.804(f)
- (11) 40 CFR 63.804(g)(1) - (g)(3), (g)(5), (g)(7) and (g)(8)
- (12) 40 CFR 63.805(a)
- (13) 40 CFR 63.806(a) through (e)
- (14) 40 CFR 63.806(h) through (j)
- (15) 40 CFR 63.807(a), (c), (e)
- (16) 40 CFR 63.808
- (17) Tables 2 through 6 to 40 CFR 63, Subpart JJ (the applicable portions).

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

E.1.3 Testing Requirements [326 IAC 2-1.1-11][326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

In order to document the compliance status with Condition E.1.2, the Permittee shall perform the testing required under 40 CFR 63, Subpart JJ, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

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

Source Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana 46741
Part 70 Permit No.: 003-36722-00038

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

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____.
- Report (specify) _____.
- Notification (specify) _____.
- Affidavit (specify) _____.
- Other (specify) _____.

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana 46741
Part 70 Permit No.: 003-36722-00038

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana 46741
Part 70 Permit No.: T003-36722-00038
Facility: SB-1 through SB-15
Parameter: VOC
Limit: The total combined VOC input to the fourteen (14) surface coating and laminating booths and one (1) research and development booths (SB-1 through SB-15) shall not exceed 225 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Source Name: Grabill Cabinet
 Source Address: 13844 Sawmill Road, Grabill, Indiana 46741
 Part 70 Permit No.: 003-36722-00038

Months: _____ to _____ Year: _____

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attachment A

Part 70 Operating Permit No: T003-36722-00038

[Downloaded from the eCFR on September 10, 2013]

Electronic Code of Federal Regulations

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart JJ—National Emission Standards for Wood Furniture Manufacturing Operations

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

§ 63.800 Applicability.

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

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

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

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

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

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

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

(d) This subpart does not apply to any surface coating or coating operation that meets any of the criteria of paragraphs (d)(1) through (4) of this section.

(1) Surface coating of metal parts and products other than metal components of wood furniture that meets the applicability criteria for miscellaneous metal parts and products surface coating (subpart MMMM of this part).

(2) Surface coating of plastic parts and products other than plastic components of wood furniture that meets the applicability criteria for plastic parts and products surface coating (subpart PPPP of this part).

(3) Surface coating of wood building products that meets the applicability criteria for wood building products surface coating (subpart QQQQ of this part). The surface coating of millwork and trim associated with cabinet manufacturing are subject to subpart JJ.

(4) Surface coating of metal furniture that meets the applicability criteria for metal furniture surface coating (subpart RRRR of this part). Surface coating of metal components of wood furniture performed at a wood furniture or wood furniture component manufacturing facility are subject to subpart JJ.

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

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

(g) Existing affected sources shall be in compliance with § 63.802(a)(4) and § 63.803(h) no later than November 21, 2014. The owner or operator of an existing area source that increases its emissions of (or its potential to emit) hazardous air pollutants (HAP) such that the source becomes a major source that is subject to this subpart shall comply with this subpart 1 year after becoming a major source.

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

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

(j) If the owner or operator, in accordance with 40 CFR 63.804, uses a control system as a means of limiting emissions, in response to an action to enforce the standards set forth in this subpart, you may assert an affirmative defense to a claim for civil penalties for exceedances of such standards that are caused by malfunction, as defined in 40 CFR 63.2. Appropriate penalties may be assessed, however, if the respondent fails to meet its burden of proving

all the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.

(1) To establish the affirmative defense in any action to enforce such a limit, the owner or operator must timely meet the notification requirements in paragraph (j)(2) of this section, and must prove by a preponderance of evidence that:

(i) The excess emissions:

(A) Were caused by a sudden, infrequent, and unavoidable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner; and

(B) Could not have been prevented through careful planning, proper design or better operation and maintenance practices; and

(C) Did not stem from any activity or event that could have been foreseen and avoided, or planned for; and

(D) Were not part of a recurring pattern indicative of inadequate design, operation, or maintenance; and

(ii) Repairs were made as expeditiously as possible when the applicable emission limitations were being exceeded. Off-shift and overtime labor were used, to the extent practicable to make these repairs; and

(iii) The frequency, amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent practicable during periods of such emissions; and

(iv) If the excess emissions resulted from a bypass of control equipment or a process, then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and

(v) All possible steps were taken to minimize the impact of the excess emissions on ambient air quality, the environment, and human health; and

(vi) All emissions monitoring and control systems were kept in operation if at all possible, consistent with safety and good air pollution control practices; and

(vii) All of the actions in response to the excess emissions were documented by properly signed, contemporaneous operating logs; and

(viii) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions; and

(ix) A written root cause analysis has been prepared, the purpose of which is to determine, correct and eliminate the primary causes of the malfunction and the excess emissions resulting from the malfunction event at issue. The analysis shall also specify, using best monitoring methods and engineering judgment, the amount of excess emissions that were the result of the malfunction.

(2) *Notification.* The owner or operator of the facility experiencing an exceedance of its emission limit(s) during a malfunction shall notify the Administrator by telephone or facsimile (FAX) transmission as soon as possible, but no later than 2 business days after the initial occurrence of the malfunction, if it wishes to avail itself of an affirmative defense to civil penalties for that malfunction. The owner or operator seeking to assert an affirmative defense shall also submit a written report to the Administrator within 45 days of the initial occurrence of the exceedance of the standard in this subpart to demonstrate, with all necessary supporting documentation, that it has met the requirements set forth in paragraph (h)(1) of this section. The owner or operator may seek an extension of this deadline for up to 30 additional days by submitting a written request to the Administrator before the expiration of the 45 day period. Until a request for an extension has been approved by the Administrator, the owner or operator is subject to the requirement to submit such report within 45 days of the initial occurrence of the exceedance.

§ 63.801 Definitions.

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

Adhesive means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means. Under this subpart, adhesives shall not be considered coatings or finishing materials. Products used on humans and animals, adhesive tape, contact paper, or any other product with an adhesive incorporated onto or in an inert substrate shall not be considered adhesives under this subpart.

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

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

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

Affirmative defense means, in the context of an enforcement proceeding, a response or defense put forward by a defendant, regarding which the defendant has the burden of proof and the merits of which are independently and objectively evaluated in a judicial or administrative proceeding.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Incinerator means, for the purposes of this industry, an enclosed combustion device that thermally oxidizes volatile organic compounds to CO and CO₂. This term does not include devices that burn municipal or hazardous waste material.

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

Low-formaldehyde means, in the context of a coating or contact adhesive, a product concentration of less than or equal to 1.0 percent formaldehyde by weight, as described in a certified product data sheet for the material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Strippable spray booth material means a coating that:

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

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

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

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

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

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

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

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

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

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

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

Wood furniture means any product made of wood, a wood product such as rattan or wicker, or an engineered wood product such as particleboard that is manufactured at any facility that is engaged, either in part or in whole, in the manufacture of wood furniture or wood furniture components, including, but not limited to, facilities under any of the following standard industrial classification codes: 2434, 2511, 2512, 2517, 2519, 2521, 2531, 2541, 2599, or 5712.

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

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

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

- (1) A_k = the area of each natural draft opening (k) in a total enclosure, in square meters.
- (2) C_c = the VHAP content of a finishing material (c), in kilograms of volatile hazardous air pollutants per kilogram of coating solids (kg VHAP/kg solids), as supplied. Also given in pounds of volatile hazardous air pollutants per pound of coating solids (lb VHAP/lb solids).
- (3) C_{aj} = the concentration of VHAP in gas stream (j) exiting the control device, in parts per million by volume.
- (4) C_{bi} = the concentration of VHAP in gas stream (i) entering the control device, in parts per million by volume.
- (5) C_{di} = the concentration of VHAP in gas stream (i) entering the control device from the affected source, in parts per million by volume.
- (6) C_{fk} = the concentration of VHAP in uncontrolled gas stream (k) emitted directly to the atmosphere from the affected source, in parts per million by volume.
- (7) E = the emission limit achieved by an emission point or a set of emission points, in kg VHAP/kg solids (lb VHAP/lb solids).
- (8) F = the control device efficiency, expressed as a fraction.
- (9) FV = the average inward face velocity across all natural draft openings in a total enclosure, in meters per hour.
- (10) G = the VHAP content of a contact adhesive, in kg VHAP/kg solids (lb VHAP/lb solids), as applied.
- (11) M = the mass of solids in finishing material used monthly, kg solids/month (lb solids/month).
- (12) N = the capture efficiency, expressed as a fraction.
- (13) Q_{aj} = the volumetric flow rate of gas stream (j) exiting the control device, in dry standard cubic meters per hour.
- (14) Q_{bi} = the volumetric flow rate of gas stream (i) entering the control device, in dry standard cubic meters per hour.
- (15) Q_{di} = the volumetric flow rate of gas stream (i) entering the control device from the emission point, in dry standard cubic meters per hour.
- (16) Q_{fk} = the volumetric flow rate of uncontrolled gas stream (k) emitted directly to the atmosphere from the emission point, in dry standard cubic meters per hour.
- (17) $Q_{in\ i}$ = the volumetric flow rate of gas stream (i) entering the total enclosure through a forced makeup air duct, in standard cubic meters per hour (wet basis).
- (18) $Q_{out\ j}$ = the volumetric flow rate of gas stream (j) exiting the total enclosure through an exhaust duct or hood, in standard cubic meters per hour (wet basis).
- (19) R = the overall efficiency of the control system, expressed as a percentage.
- (20) S = the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials.
- (21) W = the amount of solvent, in kilograms (pounds), added to finishing materials during the monthly averaging period.

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

(23) bc=before control.

(24) C_f = the formaldehyde content of a finishing material (c), in pounds of formaldehyde per gallon of coating (lb/gal).

(25) F_{total} = total formaldehyde emissions in each rolling 12 month period.

(26) G_f = the formaldehyde content of a contact adhesive (g), in pounds of formaldehyde per gallon of contact adhesive (lb/gal).

(27) V_c = the volume of formaldehyde-containing finishing material (c), in gal.

(28) V_g = the volume of formaldehyde-containing contact adhesive (g), in gal.

[60 FR 62936, Dec. 7, 1995, as amended at 62 FR 30260, June 3, 1997; 62 FR 31363, June 9, 1997; 63 FR 71380, Dec. 28, 1998; 76 FR 72072, Nov. 21, 2011]

§ 63.802 Emission limits.

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

(1) Limit VHAP emissions from finishing operations by meeting the emission limitations for existing sources presented in Table 3 of this subpart, using any of the compliance methods in § 63.804(a). To determine VHAP emissions from a finishing material containing formaldehyde or styrene, the owner or operator of the affected source shall use the methods presented in § 63.803(l)(2) for determining styrene and formaldehyde usage.

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

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

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

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

(4) Limit formaldehyde emissions by complying with the provisions specified in either paragraph (a)(4)(i) or (a)(4)(ii) of this section.

(i) Limit total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling 12 month period.

(ii) Use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations.

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

- (1) Limit VHAP emissions from finishing operations by meeting the emission limitations for new sources presented in Table 3 of this subpart using any of the compliance methods in § 63.804(d). To determine VHAP emissions from a finishing material containing formaldehyde or styrene, the owner or operator of the affected source shall use the methods presented in § 63.803(l)(2) for determining styrene and formaldehyde usage.
- (2) Limit VHAP emissions from contact adhesives by achieving a VHAP limit for contact adhesives, excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates, of no greater than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied, using either of the compliance methods in § 63.804(e).
- (3) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids (0.8 lb VOC/lb solids), as applied.
- (4) Limit formaldehyde emissions by complying with the provisions specified in either paragraph (b)(4)(i) or (b)(4)(ii) of this section.
 - (i) Limit total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling 12 month period.
 - (ii) Use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations.
- (c) At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[60 FR 62936, Dec. 7, 1995, as amended at 76 FR 72072, Nov. 21, 2011]

§ 63.803 Work practice standards.

- (a) *Work practice implementation plan.* (1) Each owner or operator of an affected source subject to this subpart shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture operation manufacturing operation and addresses each of the work practice standards presented in paragraphs (b) through (l) of this section. The plan shall be developed no more than 60 days after the compliance date.
- (2) The written work practice implementation plan shall be available for inspection by the Administrator (or delegated State, local, or Tribal authority) upon request. If the Administrator (or delegated State, local, or Tribal authority) determines that the work practice implementation plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Administrator (or delegated State, local, or Tribal authority) may require the affected source to modify the plan. Revisions or modifications to the plan do not require a revision of the source's Title V permit.
- (3) The inspection and maintenance plan required by paragraph (c) of this section and the formulation assessment plan for finishing operations required by paragraph (l) of this section are also reviewable by the Administrator (or delegated State, local, or Tribal authority).
- (b) *Operator training course.* Each owner or operator of an affected source shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and washoff operations, use of manufacturing equipment, or implementation of the requirements of this subpart. All new personnel, those hired after the compliance date of the standard, shall be trained upon hiring. All existing personnel, those hired before the compliance date of the standard, shall be trained within six months of the compliance date of the standard. All personnel shall be given refresher training annually. The affected source shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, the following:
 - (1) A list of all current personnel by name and job description that are required to be trained;

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

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

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

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

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

(2) An inspection schedule;

(3) Methods for documenting the date and results of each inspection and any repairs that were made;

(4) The timeframe between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:

(i) A first attempt at repair (e.g., tightening of packing glands) shall be made no later than five calendar days after the leak is detected; and

(ii) Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within three months.

(d) *Cleaning and washoff solvent accounting system.* Each owner or operator of an affected source shall develop an organic HAP solvent accounting form to record:

(1) The quantity and type of organic HAP solvent used each month for washoff and cleaning, as defined in § 63.801 of this subpart;

(2) The number of pieces washed off, and the reason for the washoff; and

(3) The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.

(e) *Chemical composition of cleaning and washoff solvents.* Each owner or operator of an affected source shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table 4 to this subpart, in concentrations subject to MSDS reporting as required by OSHA.

(f) *Spray booth cleaning.* Each owner or operator of an affected source shall not use compounds containing more than 8.0 percent by weight of VOC for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters unless the spray booth is being refurbished. If the spray booth is being refurbished, that is the spray booth coating or other protective material used to cover the booth is being replaced, the affected source shall use no more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.

(g) *Storage requirements.* Each owner or operator of an affected source shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials.

(h) *Application equipment requirements.* Each owner or operator of an affected source shall not use conventional air spray guns except when all emissions from the finishing application station are routed to a functioning control device.

(i) *Line cleaning.* Each owner or operator of an affected source shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.

(j) *Gun cleaning.* Each owner or operator of an affected source shall collect all organic HAP solvent used to clean spray guns into a normally closed container.

(k) *Washoff operations.* Each owner or operator of an affected source shall control emissions from washoff operations by:

(1) Using normally closed tanks for washoff; and

(2) Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.

(l) *Formulation assessment plan for finishing operations.* Each owner or operator of an affected source shall prepare and maintain with the work practice implementation plan a formulation assessment plan that:

(1) Identifies VHAP from the list presented in Table 5 of this subpart that are being used in finishing operations by the affected source;

(2) Establishes a baseline level of usage by the affected source, for each VHAP identified in paragraph (l)(1) of this section. The baseline usage level shall be the highest annual usage from 1994, 1995, or 1996, for each VHAP identified in paragraph (l)(1) of this section. For formaldehyde, the baseline level of usage shall be based on the amount of free formaldehyde present in the finishing material when it is applied. For styrene, the baseline level of usage shall be an estimate of unreacted styrene, which shall be calculated by multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16. Sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the equation in § 63.805 (d) or (e).

(3) Tracks the annual usage of each VHAP identified in (l)(1) by the affected source that is present in amounts subject to MSDS reporting as required by OSHA.

(4) If, after November 1998, the annual usage of the VHAP identified in paragraph (l)(1) exceeds its baseline level, then the owner or operator of the affected source shall provide a written notification to the permitting authority that describes the amount of the increase and explains the reasons for exceedance of the baseline level. The following explanations would relieve the owner or operator from further action, unless the affected source is not in compliance with any State regulations or requirements for that VHAP:

(i) The exceedance is no more than 15.0 percent above the baseline level;

(ii) Usage of the VHAP is below the de minimis level presented in Table 5 of this subpart for that VHAP (sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the procedures in § 63.805 (d) or (e));

(iii) The affected source is in compliance with its State's air toxic regulations or guidelines for the VHAP; or

(iv) The source of the pollutant is a finishing material with a VOC content of no more than 1.0 kg VOC/kg solids (1.0 lb VOC/lb solids), as applied.

(5) If none of the above explanations are the reason for the increase, the owner or operator shall confer with the permitting authority to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality, and marketability of the product, whether the technology is being used successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the permitting authority and owner or operator. If there are no practical and reasonable solutions, the facility need take no further action. If there are solutions, the owner or operator shall develop a plan to reduce usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan, and a schedule for submitting notification of progress.

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

[60 FR 62936, Dec. 7, 1995, as amended at 63 FR 71380, Dec. 28, 1998; 68 FR 37353, June 23, 2003; 76 FR 72073, Nov. 21, 2011]

§ 63.804 Compliance procedures and monitoring requirements.

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

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

$$E = (M_{c1} C_{c1} + M_{c2} C_{c2} + \dots + M_{cn} C_{cn} + S_1 W_1 + S_2 W_2 + \dots + S_n W_n) / (M_{c1} + M_{c2} + \dots + M_{cn}) \quad \text{Equation 1}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(i) Demonstrate that each sealer and topcoat has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, each stain has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight;

(ii) Demonstrate that each washcoat, basecoat, and enamel that is purchased pre-made, that is, it is not formulated onsite by thinning another finishing material, has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight; and

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

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

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

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

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

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

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

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

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

(2) Owners or operators of an affected source subject to the provisions of § 63.802 (a)(1) or (b)(1) that comply through the procedures established in § 63.804 (a)(2) or (d)(2) shall submit an initial compliance status report, as

required by § 63.807(b), stating that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, are being used by the affected source.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (i) Submitting a monitoring plan that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance;
 - (ii) Conducting an initial performance test as required under § 63.7 using the procedures and test methods listed in § 63.7 and § 63.805 (c) and (d) or (e);
 - (iii) Calculating the overall control efficiency (R) following the procedures in § 63.805 (d) or (e); and
 - (iv) Determining those operating conditions critical to determining compliance and establishing one or more operating parameters that will ensure compliance with the standard.
- (A) For compliance with a thermal incinerator, minimum combustion temperature shall be the operating parameter.
- (B) For compliance with a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst shall be the operating parameter.
- (C) For compliance with a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst bed and the pressure drop across the catalyst bed shall be the operating parameters.
- (v) Owners or operators complying with § 63.804(f)(6) shall calculate each site-specific operating parameter value as the arithmetic average of the maximum or minimum operating values as appropriate, that demonstrate compliance with the standards, during the three test runs required by § 63.805(c)(1).
- (7) Owners or operators of an affected source subject to the provisions of § 63.802 (a)(3) or (b)(3) shall submit an initial compliance status report, as required by § 63.807(b), stating that compliant strippable spray booth coatings are being used by the affected source.
- (8) Owners or operators of an affected source subject to the work practice standards in § 63.803 shall submit an initial compliance status report, as required by § 63.807(b), stating that the work practice implementation plan has been developed and procedures have been established for implementing the provisions of the plan.
- (g) *Continuous compliance demonstrations.* (1) Owners or operators of an affected source subject to the provisions of § 63.802 (a)(1) or (b)(1) that comply through the procedures established in § 63.804 (a)(1) or (d)(1) shall demonstrate continuous compliance by submitting the results of the averaging calculation (Equation 1) for each month within that semiannual period and submitting a compliance certification with the semiannual report required by § 63.807(c).
- (i) The compliance certification shall state that the value of (E), as calculated by Equation 1, is no greater than 1.0 for existing sources or 0.8 for new sources. An affected source is in violation of the standard if E is greater than 1.0 for existing sources or 0.8 for new sources for any month. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.
 - (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.
- (2) Owners or operators of an affected source subject to the provisions of § 63.802 (a)(1) or (b)(1) that comply through the procedures established in § 63.804 (a)(2) or (d)(2) shall demonstrate continuous compliance by using compliant coatings and thinners, maintaining records that demonstrate the coatings and thinners are compliant, and submitting a compliance certification with the semiannual report required by § 63.807(c).
- (i) The compliance certification shall state that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.
 - (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(9) *Continuous compliance requirements.* You must demonstrate continuous compliance with the emissions standards and operating limits by using the performance test methods and procedures in § 63.805 for each affected source.

(i) *General requirements.* (A) You must monitor and collect data, and provide a site specific monitoring plan as required by §§ 63.804, 63.806 and 63.807.

(B) Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), you must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and periods of malfunction. Any period for which data collection is required and the operation of the CEMS is not otherwise exempt and for which the monitoring system is

out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(C) You may not use data recorded during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The owner or operator must use all the data collected during all other periods in assessing the operation of the control device and associated control system.

(ii) [Reserved]

(h) The owner or operator of an existing or new affected source subject to § 63.802(a)(4) or (b)(4) shall comply with those provisions by using either of the methods presented in § 63.804(h)(1) and (2) if complying with § 63.802(a)(4)(i) or (b)(4)(i) or by using the method presented in § 63.804(h)(3) if complying with § 63.802(a)(4)(ii) or (b)(4)(ii).

(1) Calculate total formaldehyde emissions from all finishing materials and contact adhesives used at the facility using Equation 5 and maintain a value of F_{total} no more than 400 pounds per rolling 12 month period.

$$F_{total} = (C_{f1} V_{c1} + C_{f2} V_{c2} + * * * + C_{fn} V_{cn} + G_{f1} V_{g1} + G_{f2} V_{g2} + * * * + G_{fn} V_{gn}) \text{ Equation 5}$$

(2) Use a control system with an overall control efficiency (R) such that the calculated value of F_{total} in Equation 6 is no more than 400 pounds per rolling 12 month period.

$$F_{total} = (C_{f1} V_{c1} + C_{f2} V_{c2} + * * * + C_{fn} V_{cn} + G_{f1} V_{g1} + G_{f2} V_{g2} + * * * + G_{fn} V_{gn}) * (1-R) \text{ Equation 6}$$

(3) Demonstrate compliance by use of coatings and contact adhesives only if they are low-formaldehyde coatings and contact adhesives maintaining a certified product data sheet for each coating and contact adhesive used, as required by § 63.806(b)(1), and submitting a compliance certification with the semiannual report required by § 63.807(c).

(i) The compliance certification shall state that low-formaldehyde coatings and contact adhesives, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a coating or contact adhesive that is not low-formaldehyde, as demonstrated by records or by a sample of the coating or contact adhesive, is used. Use of a noncompliant coating or contact adhesive is a separate violation for each day the noncompliant coating or contact adhesive is used.

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

[60 FR 62936, Dec. 7, 1995, as amended at 76 FR 72073, Nov. 21, 2011]

§ 63.805 Performance test methods.

(a)(1) The EPA Method 311 of appendix A of part 63 shall be used in conjunction with formulation data to determine the VHAP content of the liquid coating. Formulation data shall be used to identify VHAP present in the coating. The EPA Method 311 shall then be used to quantify those VHAP identified through formulation data. The EPA Method 311 shall not be used to quantify HAP such as styrene and formaldehyde that are emitted during the cure. The EPA Method 24 (40 CFR part 60, appendix A) shall be used to determine the solids content by weight and the density of coatings. If it is demonstrated to the satisfaction of the Administrator that a coating does not release VOC or HAP byproducts during the cure, for example, all VOC and HAP present in the coating is solvent, then batch formulation information shall be accepted. The owner or operator of an affected source may request approval from the

Administrator to use an alternative method for determining the VHAP content of the coating. In the event of any inconsistency between the EPA Method 24 or Method 311 test data and a facility's formulation data, that is, if the EPA Method 24/311 value is higher, the EPA Method 24/311 test shall govern unless after consultation, a regulated source could demonstrate to the satisfaction of the enforcement agency that the formulation data were correct. Sampling procedures shall follow the guidelines presented in "Standard Procedures for Collection of Coating and Ink Samples for VOC Content Analysis by Reference Method 24 and Reference Method 24A," EPA-340/1-91-010. (Docket No. A-93-10, Item No. IV-A-1).

(2) Performance tests shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(B) Determine FV by the following equation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (i) The installation of a permanent total enclosure is demonstrated ($N=1$);
- (ii) The value of F is determined from Equation (5); and
- (iii) The product of $(F \times N)(100)$ yields a value (R) such that the value of G_{ac} in Equation 3 is no greater than 0.2.

[60 FR 62936, Dec. 7, 1995, as amended at 76 FR 72073, Nov. 21, 2011]

§ 63.806 Recordkeeping requirements.

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

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

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

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

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

(4) The formaldehyde content, in lb/gal, as applied, of each finishing material and contact adhesive subject to the emission limits in § 63.802(a)(4) or (b)(4) and chooses to comply with the 400 lb/yr limits on formaldehyde in § 63.802(a)(4) (i) or (b)(4)(i).

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

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

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

(2) Viscosity measurements; and

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

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

(1) Records demonstrating that the operator training program required by § 63.803(b) is in place;

(2) Records collected in accordance with the inspection and maintenance plan required by § 63.803(c);

(3) Records associated with the cleaning solvent accounting system required by § 63.803(d);

(4) [Reserved]

(5) Records associated with the formulation assessment plan required by § 63.803(l); and

(6) Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.

(f) The owner or operator of an affected source following the compliance method of § 63.804 (f)(4) or (g)(4) shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the value of E_{ac} required by Equations 2 or 4, records of the operating parameter values, and copies of the semiannual compliance reports required by § 63.807(d).

(g) The owner or operator of an affected source following the compliance method of § 63.804 (f)(6) or (g)(6), shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the applicable value of G_{ac} calculated using Equation 3, records of the operating parameter values, and copies of the semiannual compliance reports required by § 63.807(d).

(h) The owner or operator of an affected source subject to the emission limits in § 63.802 and following the compliance provisions of § 63.804(f) (1), (2), (3), (5), (7) and (8) and § 63.804(g) (1), (2), (3), (5), (7), and (8) shall maintain records of the compliance certifications submitted in accordance with § 63.807(c) for each semiannual period following the compliance date.

(i) The owner or operator of an affected source shall maintain records of all other information submitted with the compliance status report required by § 63.9(h) and § 63.807(b) and the semiannual reports required by § 63.807(c).

(j) The owner or operator of an affected source shall maintain all records in accordance with the requirements of § 63.10(b)(1).

(k) The owner or operator of an affected source subject to this subpart shall maintain records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control equipment and monitoring equipment. The owner or operator shall maintain records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.802(c), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[60 FR 62936, Dec. 7, 1995, as amended at 76 FR 72074, Nov. 21, 2011]

§ 63.807 Reporting requirements.

(a) The owner or operator of an affected source subject to this subpart shall fulfill all reporting requirements of § 63.7 through § 63.10 of subpart A (General Provisions) according to the applicability criteria in § 63.800(d) of this subpart.

(b) The owner or operator of an affected source demonstrating compliance in accordance with § 63.804(f) (1), (2), (3), (5), (7) and (8) shall submit the compliance status report required by § 63.9(h) of subpart A (General Provisions) no later than 60 days after the compliance date. The report shall include the information required by § 63.804(f) (1), (2), (3), (5), (7), and (8) of this subpart.

(c) The owner or operator of an affected source demonstrating compliance in accordance with § 63.804(g)(1), (2), (3), (5), (7), (8), (h)(1), and (h)(3) shall submit a report covering the previous 6 months of wood furniture manufacturing operations.

(1) The first report shall be submitted 30 calendar days after the end of the first 6-month period following the compliance date.

(2) Subsequent reports shall be submitted 30 calendar days after the end of each 6-month period following the first report.

(3) The semiannual reports shall include the information required by § 63.804(g) (1), (2), (3), (5), (7), (8), (h)(1), and (h)(3), a statement of whether the affected source was in compliance or noncompliance, and, if the affected source was in noncompliance, the measures taken to bring the affected source into compliance. If there was a malfunction during the reporting period, the report shall also include the number, duration and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable

emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with § 63.802(c), including actions taken to correct a malfunction.

(4) The frequency of the reports required by paragraph (c) of this section shall not be reduced from semiannually regardless of the history of the owner's or operator's compliance status.

(d) The owner or operator of an affected source demonstrating compliance in accordance with § 63.804(g)(4), (6), and (h)(2) of this subpart shall submit the excess emissions and continuous monitoring system performance report and summary report required by § 63.10(e) of subpart A. The report shall include the monitored operating parameter values required by § 63.804(g) (4) and (6). If the source experiences excess emissions, the report shall be submitted quarterly for at least 1 year after the excess emissions occur and until a request to reduce reporting frequency is approved, as indicated in § 63.10(e)(3)(C). If no excess emissions occur, the report shall be submitted semiannually.

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

[60 FR 62936, Dec. 7, 1995, as amended at 76 FR 72074, Nov. 21, 2011]

§ 63.808 Implementation and enforcement.

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

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

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

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

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

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

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

[68 FR 37354, June 23, 2003]

§§ 63.809-63.819 [Reserved]

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

Reference	Applies to subpart JJ	Comment
63.1(a)	Yes	
63.1(b)(1)	No	Subpart JJ specifies applicability.
63.1(b)(2)	Yes	
63.1(b)(3)	Yes	
63.1(c)(1)	No	Subpart JJ specifies applicability.
63.1(c)(2)	No	Area sources are not subject to subpart JJ.
63.1(c)(4)	Yes	
63.1(c)(5)	Yes	
63.1(e)	Yes	
63.2	Yes	Additional terms are defined in 63.801(a) of subpart JJ. When overlap between subparts A and JJ occurs, subpart JJ takes precedence.
63.3	Yes	Other units used in subpart JJ are defined in 63.801(b).
63.4	Yes	
63.5	Yes	
63.6(a)	Yes	
63.6(b)(1)	Yes	
63.6(b)(2)	Yes	
63.6(b)(3)	Yes	
63.6(b)(4)	No	May apply when standards are proposed under Section 112(f) of the CAA.
63.6(b)(5)	Yes	
63.6(b)(7)	Yes	
63.6(c)(1)	Yes	
63.6(c)(2)	No	
63.6(c)(5)	Yes	
63.6(e)(1)(i)	No	See § 63.802(c) for general duty requirement.
63.6(e)(1)(ii)	No.	
63.6(e)(1)(iii)	Yes.	
63.6(e)(2)	No	Section reserved.
63.6(e)(3)	No.	
63.6(f)(1)	No	Affected sources complying through the procedures specified in 63.804 (a)(1), (a)(2), (b), (c)(1), (d)(1), (d)(2), (e)(1), and (e)(2) are subject to the emission standards at all times, including periods of startup, shutdown, and malfunction.
63.6(f)(2)	Yes	
63.6(f)(3)	Yes	
63.6(g)	Yes	
63.6(h)	No	
63.6 (i)(1)-(i)(3)	Yes	
63.6(i)(4)(i)	Yes	
63.6(i)(4)(ii)	No	
63.6 (i)(5)-(i)(14)	Yes	
63.6(i)(16)	Yes	

Reference	Applies to subpart JJ	Comment
63.6(j)	Yes	
63.7(a)-(d)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.7(e)(1)	No	See § 63.805(a)(1).
63.7(e)(2)-(e)(4)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.8(a)-(b)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.8(c)(1)(i)	No.	
63.8(c)(1)(ii)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.8(c)(1)(iii)	No.	
63.8(c)(2)-(d)(2)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.8(d)(3)	Yes, except for last sentence	Applies only to affected sources using a control device to comply with the rule.
63.8(e)-(g)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.9(a)	Yes	
63.9(b)	Yes	Existing sources are required to submit initial notification report within 270 days of the effective date.
63.9(c)	Yes	
63.9(d)	Yes	
63.9(e)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.9(f)	No	
63.9(g)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.9(h)	Yes	63.9(h)(2)(ii) applies only to affected sources using a control device to comply with the rule.
63.9(i)	Yes	
63.9(j)	Yes	
63.10(a)	Yes	
63.10(b)(1)	Yes	
63.10(b)(2)(i)	No.	
63.10(b)(2)(ii)	No	See § 63.806(k) for recordkeeping of occurrence and duration of malfunctions and recordkeeping of actions taken during malfunctions.
63.10(b)(2)(iii)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(b)(2)(iv)-(b)(2)(v)	No.	
63.10(b)(2)(vi)-(b)(2)(xiv)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(b)(3)	Yes	
63.10(c)(1)-(9)	Yes.	
63.10(c)(10)-(11)	No	See § 63.806(k) for recordkeeping of malfunctions.
63.10(c)(12)-(14)	Yes.	
63.10(c)(15)	No.	
63.10(d)(1)	Yes	
63.10(d)(2)	Yes	Applies only to affected sources using a control device to comply with the rule.
63.10(d)(3)	No	
63.10(d)(4)	Yes	
63.10(d)(5)	No	See § 63.807(c)(3) for reporting of malfunctions.
63.10(e)	Yes	Applies only to affected sources using a control device to comply with the rule.

Reference	Applies to subpart JJ	Comment
63.10(f)	Yes	
63.11	No	
63.12-63.15	Yes	

[60 FR 62936, Dec. 7, 1995, as amended at 76 FR 72074, Nov. 21, 2011]

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

Chemical name	CAS No.
Acetaldehyde	75070
Acetamide	60355
Acetonitrile	75058
Acetophenone	98862
2-Acetylaminofluorine	53963
Acrolein	107028
Acrylamide	79061
Acrylic acid	79107
Acrylonitrile	107131
Allyl chloride	107051
4-Aminobiphenyl	92671
Aniline	62533
o-Anisidine	90040
Benzene	71432
Benzidine	92875
Benzotrichloride	98077
Benzyl chloride	100447
Biphenyl	92524
Bis (2-ethylhexyl) phthalate (DEHP)	117817
Bis (chloromethyl) ether	542881
Bromoform	75252
1,3-Butadiene	106990
Carbon disulfide	75150
Carbon tetrachloride	56235
Carbonyl sulfide	463581
Catechol	120809
Chloroacetic acid	79118
2-Chloroacetophenone	532274
Chlorobenzene	108907
Chloroform	67663
Chloromethyl methyl ether	107302
Chloroprene	126998
Cresols (isomers and mixture)	1319773
o-Cresol	95487
m-Cresol	108394

Chemical name	CAS No.
p-Cresol	106445
Cumene	98828
2,4-D (2,4-Dichlorophenoxyacetic acid, including salts and esters)	94757
DDE (1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene)	72559
Diazomethane	334883
Dibenzofuran	132649
1,2-Dibromo-3-chloropropane	96128
Dibutylphthalate	84742
1,4-Dichlorobenzene	106467
3,3'-Dichlorobenzidine	91941
Dichloroethyl ether (Bis(2-chloroethyl)ether)	111444
1,3-Dichloropropene	542756
Diethanolamine	111422
N,N-Dimethylaniline	121697
Diethyl sulfate	64675
3,3'-Dimethoxybenzidine	119904
4-Dimethylaminoazobenzene	60117
3,3'-Dimethylbenzidine	119937
Dimethylcarbamoyl chloride	79447
N,N-Dimethylformamide	68122
1,1-Dimethylhydrazine	57147
Dimethyl phthalate	131113
Dimethyl sulfate	77781
4,6-Dinitro-o-cresol, and salts	534521
2,4-Dinitrophenol	51285
2,4-Dinitrotoluene	121142
1,4-Dioxane (1,4-Diethyleneoxide)	123911
1,2-Diphenylhydrazine	122667
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106898
1,2-Epoxybutane	106887
Ethyl acrylate	140885
Ethylbenzene	100414
Ethyl carbamate (Urethane)	51796
Ethyl chloride (Chloroethane)	75003
Ethylene dibromide (Dibromoethane)	106934
Ethylene dichloride (1,2-Dichloroethane)	107062
Ethylene glycol	107211
Ethylene oxide	75218
Ethylenethiourea	96457
Ethylidene dichloride (1,1-Dichloroethane)	75343
Formaldehyde	50000
Glycolethers ^a	
Hexachlorobenzene	118741
Hexachloro-1,3-butadiene	87683

Chemical name	CAS No.
Hexachloroethane	67721
Hexamethylene-1,6-diisocyanate	822060
Hexamethylphosphoramide	680319
Hexane	110543
Hydrazine	302012
Hydroquinone	123319
Isophorone	78591
Maleic anhydride	108316
Methanol	67561
Methyl bromide (Bromomethane)	74839
Methyl chloride (Chloromethane)	74873
Methyl chloroform (1,1,1-Trichloroethane)	71556
Methyl ethyl ketone (2-Butanone)	78933
Methylhydrazine	60344
Methyl iodide (Iodomethane)	74884
Methyl isobutyl ketone (Hexone)	108101
Methyl isocyanate	624839
Methyl methacrylate	80626
Methyl tert-butyl ether	1634044
4,4'-Methylenebis (2-chloroaniline)	101144
Methylene chloride (Dichloromethane)	75092
4,4'-Methylenediphenyl diisocyanate (MDI)	101688
4,4'-Methylenedianiline	101779
Naphthalene	91203
Nitrobenzene	98953
4-Nitrobiphenyl	92933
4-Nitrophenol	100027
2-Nitropropane	79469
N-Nitroso-N-methylurea	684935
N-Nitrosodimethylamine	62759
N-Nitrosomorpholine	59892
Phenol	108952
p-Phenylenediamine	106503
Phosgene	75445
Phthalic anhydride	85449
Polychlorinated biphenyls (Aroclors)	1336363
Polycyclic Organic Matter ^b	
1,3-Propane sultone	1120714
beta-Propiolactone	57578
Propionaldehyde	123386
Propoxur (Baygon)	114261
Propylene dichloride (1,2-Dichloropropane)	78875
Propylene oxide	75569
1,2-Propylenimine (2-Methyl aziridine)	75558

Chemical name	CAS No.
Quinone	106514
Styrene	100425
Styrene oxide	96093
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016
1,1,2,2-Tetrachloroethane	79345
Tetrachloroethylene (Perchloroethylene)	127184
Toluene	108883
2,4-Toluediamine	95807
Toluene-2,4-diisocyanate	584849
o-Toluidine	95534
1,2,4-Trichlorobenzene	120821
1,1,2-Trichloroethane	79005
Trichloroethylene	79016
2,4,5-Trichlorophenol	95954
2,4,6-Trichlorophenol	88062
Triethylamine	121448
Trifluralin	1582098
2,2,4-Trimethylpentane	540841
Vinyl acetate	108054
Vinyl bromide	593602
Vinyl chloride	75014
Vinylidene chloride (1,1-Dichloroethylene)	75354
Xylenes (isomers and mixture)	1330207
o-Xylene	95476
m-Xylene	108383
p-Xylene	106423

^a Includes mono- and di-ethers of ethylene glycol, diethylene glycols and triethylene glycol; R-(OCH₂CH₂)_n RR-OR where:

n = 1, 2, or 3,

R = alkyl or aryl groups

R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH₂CH₂)_n-OH. Polymers are excluded from the glycol category.

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

[63 FR 71381, Dec. 28, 1998]

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

Emission point	Existing source	New source
Finishing Operations:		

Emission point	Existing source	New source
(a) Achieve a weighted average VHAP content across all coatings (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied)	^a 1.0	^a 0.8
(b) Use compliant finishing materials (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied):		
—stains	^a 1.0	^a 1.0
—washcoats	^{a,b} 1.0	^{a,b} 0.8
—sealers	^a 1.0	^a 0.8
—topcoats	^a 1.0	^a 0.8
—basecoats	^{a,b} 1.0	^{a,b} 0.8
—enamels	^{a,b} 1.0	^{a,b} 0.8
—thinners (maximum percent VHAP allowable); or	10.0	10.0
(c) As an alternative, use control device; or	^c 1.0	^c 0.8
(d) Use any combination of (a), (b), and (c)	1.0	0.8
Cleaning Operations:		
Strippable spray booth material (maximum VOC content, kg VOC/kg solids [lb VOC/lb solids])	0.8	0.8
Contact Adhesives:		
(a) Use compliant contact adhesives (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied) based on following criteria:		
i. For aerosol adhesives, and for contact adhesives applied to nonporous substrates	^d NA	^d NA
ii. For foam adhesives used in products that meet flammability requirements	1.8	0.2
iii. For all other contact adhesives (including foam adhesives used in products that do not meet flammability requirements); or	1.0	0.2
(b) Use a control device	^e 1.0	^e 0.2
All Finishing Operations and Contact Adhesives:		
(a) Achieve total free formaldehyde emissions across all finishing operations and contact adhesives, lb per rolling 12 month period, as applied	400	400
(b) Use coatings and contact adhesives only if they are low-formaldehyde coatings and contact adhesives	^f 1.0	^f 1.0

^a The limits refer to the VHAP content of the coating, as applied.

^b Washcoats, basecoats, and enamels must comply with the limits presented in this table if they are purchased premade, that is, if they are not formulated onsite by thinning other finishing materials. If they are formulated onsite, they must be formulated using compliant finishing materials, i.e., those that meet the limits specified in this table, and thinners containing no more than 3.0 percent VHAP by weight.

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

^d There is no limit on the VHAP content of these adhesives.

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

^f The limits refer to the formaldehyde content by weight of the coating or contact adhesive, as specified on certified product data sheets.

[60 FR 62936, Dec. 7, 1995, as amended at 62 FR 30260, June 3, 1997; 76 FR 72073, Nov. 21, 2011]

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

Chemical name	CAS No.
4-Aminobiphenyl	92671
Styrene oxide	96093
Diethyl sulfate	64675
N-Nitrosomorpholine	59892
Dimethyl formamide	68122
Hexamethylphosphoramide	680319
Acetamide	60355
4,4'-Methylenedianiline	101779
o-Anisidine	90040
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016
Beryllium salts	
Benzidine	92875
N-Nitroso-N-methylurea	684935
Bis (chloromethyl) ether	542881
Dimethyl carbamoyl chloride	79447
Chromium compounds (hexavalent)	
1,2-Propylenimine (2-Methyl aziridine)	75558
Arsenic and inorganic arsenic compounds	99999904
Hydrazine	302012
1,1-Dimethyl hydrazine	57147
Beryllium compounds	7440417
1,2-Dibromo-3-chloropropane	96128
N-Nitrosodimethylamine	62759
Cadmium compounds	
Benzo (a) pyrene	50328
Polychlorinated biphenyls (Aroclors)	1336363
Heptachlor	76448
3,3'-Dimethyl benzidine	119937
Nickel subsulfide	12035722
Acrylamide	79061
Hexachlorobenzene	118741
Chlordane	57749
1,3-Propane sultone	1120714
1,3-Butadiene	106990
Nickel refinery dust	
2-Acetylaminoflourine	53963
3,3'-Dichlorobenzidine	53963
Lindane (hexachlorcyclohexane, gamma)	58899
2,4-Toluene diamine	95807
Dichloroethyl ether (Bis(2-chloroethyl) ether)	111444
1,2-Diphenylhydrazine	122667

Chemical name	CAS No.
Toxaphene (chlorinated camphene)	8001352
2,4-Dinitrotoluene	121142
3,3'-Dimethoxybenzidine	119904
Formaldehyde	50000
4,4'-Methylene bis (2-chloroaniline)	101144
Acrylonitrile	107131
Ethylene dibromide (1,2-Dibromoethane)	106934
DDE (1,1-p-chlorophenyl 1-2 dichloroethylene)	72559
Chlorobenzilate	510156
Dichlorvos	62737
Vinyl chloride	75014
Coke Oven Emissions	
Ethylene oxide	75218
Ethylene thiourea	96457
Vinyl bromide (bromoethene)	593602
Selenium sulfide (mono and di)	7488564
Chloroform	67663
Pentachlorophenol	87865
Ethyl carbamate (Urethane)	51796
Ethylene dichloride (1,2-Dichloroethane)	107062
Propylene dichloride (1,2-Dichloropropane)	78875
Carbon tetrachloride	56235
Benzene	71432
Methyl hydrazine	60344
Ethyl acrylate	140885
Propylene oxide	75569
Aniline	62533
1,4-Dichlorobenzene(p)	106467
2,4,6-Trichlorophenol	88062
Bis (2-ethylhexyl) phthalate (DEHP)	117817
o-Toluidine	95534
Propoxur	114261
1,4-Dioxane (1,4-Diethyleneoxide)	123911
Acetaldehyde	75070
Bromoform	75252
Captan	133062
Epichlorohydrin	106898
Methylene chloride (Dichloromethane)	75092
Dibenz (ah) anthracene	53703
Chrysene	218019
Dimethyl aminoazobenzene	60117
Benzo (a) anthracene	56553
Benzo (b) fluoranthene	205992
Antimony trioxide	1309644

Chemical name	CAS No.
2-Nitropropane	79469
1,3-Dichloropropene	542756
7, 12-Dimethylbenz(a) anthracene	57976
Benz(c) acridine	225514
Indeno(1,2,3-cd)pyrene	193395
1,2:7,8-Dibenzopyrene	189559

[63 FR 71382, Dec. 28, 1998]

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

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

[63 FR 71382, Dec. 28, 1998]

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

CAS No.	Chemical name	EPA de minimis, tons/yr*
92671	4-Aminobiphenyl	1.0
96093	Styrene oxide	1.0
64675	Diethyl sulfate	1.0
59892	N-Nitrosomorpholine	1.0
68122	Dimethyl formamide	1.0
680319	Hexamethylphosphoramide	0.01
60355	Acetamide	1.0
101779	4,4'-Methylenedianiline	1.0
90040	o-Anisidine	1.0
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0000006
92875	Benzidine	0.00003
684935	N-Nitroso-N-methylurea	0.00002
542881	Bis(chloromethyl) ether	0.00003
79447	Dimethyl carbamoyl chloride	0.002
75558	1,2-Propylenimine (2-Methyl aziridine)	0.0003
57147	1,1-Dimethyl hydrazine	0.0008
96128	1,2-Dibromo-3-chloropropane	0.001

CAS No.	Chemical name	EPA de minimis, tons/yr*
62759	N-Nitrosodimethylamine	0.0001
50328	Benzo (a) pyrene	0.001
1336363	Polychlorinated biphenyls (Aroclors)	0.0009
76448	Heptachlor	0.002
119937	3,3'-Dimethyl benzidine	0.001
79061	Acrylamide	0.002
118741	Hexachlorobenzene	0.004
57749	Chlordane	0.005
1120714	1,3-Propane sultone	0.003
106990	1,3-Butadiene	0.007
53963	2-Acetylaminoflourine	0.0005
91941	3,3'-Dichlorobenzidine	0.02
58899	Lindane (hexachlorocyclohexane, gamma)	0.005
95807	2,4-Toluene diamine	0.002
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)	0.006
122667	1,2—Diphenylhydrazine	0.009
8001352	Toxaphene (chlorinated camphene)	0.006
121142	2,4-Dinitrotoluene	0.002
119904	3,3'-Dimethoxybenzidine	0.01
50000	Formaldehyde	0.2
101144	4,4'-Methylene bis(2-chloroaniline)	0.02
107131	Acrylonitrile	0.03
106934	Ethylene dibromide(1,2-Dibromoethane)	0.01
72559	DDE (1,1-p-chlorophenyl 1-2 dichloroethylene)	0.01
510156	Chlorobenzilate	0.04
62737	Dichlorvos	0.02
75014	Vinyl chloride	0.02
75218	Ethylene oxide	0.09
96457	Ethylene thiourea	0.06
593602	Vinyl bromide (bromoethene)	0.06
67663	Chloroform	0.09
87865	Pentachlorophenol	0.07
51796	Ethyl carbamate (Urethane)	0.08
107062	Ethylene dichloride (1,2-Dichloroethane)	0.08
78875	Propylene dichloride (1,2-Dichloropropane)	0.1
56235	Carbon tetrachloride	0.1
71432	Benzene	0.2
140885	Ethyl acrylate	0.1
75569	Propylene oxide	0.5
62533	Aniline	0.1
106467	1,4-Dichlorobenzene(p)	0.3
88062	2,4,6-Trichlorophenol	0.6
117817	Bis (2-ethylhexyl) phthalate (DEHP)	0.5
95534	o-Toluidine	0.4

CAS No.	Chemical name	EPA de minimis, tons/yr*
114261	Propoxur	2.0
79016	Trichloroethylene	1.0
123911	1,4-Dioxane (1,4-Diethyleneoxide)	0.6
75070	Acetaldehyde	0.9
75252	Bromoform	2.0
133062	Captan	2.0
106898	Epichlorohydrin	2.0
75092	Methylene chloride (Dichloromethane)	4.0
127184	Tetrachloroethylene (Perchloroethylene)	4.0
53703	Dibenz (ah) anthracene	0.01
218019	Chrysene	0.01
60117	Dimethyl aminoazobenzene	1.0
56553	Benzo (a) anthracene	0.01
205992	Benzo (b) fluoranthene	0.01
79469	2-Nitropropane	1.0
542756	1,3-Dichloropropene	1.0
57976	7,12-Dimethylbenz (a) anthracene	0.01
225514	Benz(c)acridine	0.01
193395	Indeno(1,2,3-cd)pyrene	0.01
189559	1,2:7,8-Dibenzopyrene	0.01
79345	1,1,2,2-Tetrachloroethane	0.03
91225	Quinoline	0.0006
75354	Vinylidene chloride (1,1-Dichloroethylene)	0.04
87683	Hexachlorobutadiene	0.09
82688	Pentachloronitrobenzene (Quintobenzene)	0.03
78591	Isophorone	0.7
79005	1,1,2-Trichloroethane	0.1
74873	Methyl chloride (Chloromethane)	1.0
67721	Hexachloroethane	0.5
1582098	Trifluralin	0.9
1319773	Cresols/Cresylic acid (isomers and mixture)	1.0
108394	m-Cresol	1.0
75343	Ethylidene dichloride (1,1-Dichloroethane)	1.0
95487	o-Cresol	1.0
106445	p-Cresol	1.0
74884	Methyl iodide (Iodomethane)	1.0
100425	Styrene	1.0
107051	Allyl chloride	1.0
334883	Diazomethane	1.0
95954	2,4,5—Trichlorophenol	1.0
133904	Chloramben	1.0
106887	1,2—Epoxybutane	1.0
108054	Vinyl acetate	1.0
126998	Chloroprene	1.0

CAS No.	Chemical name	EPA de minimis, tons/yr*
123319	Hydroquinone	1.0
92933	4-Nitrobiphenyl	1.0
56382	Parathion	0.1
13463393	Nickel Carbonyl	0.1
60344	Methyl hydrazine	0.006
151564	Ethylene imine	0.0003
77781	Dimethyl sulfate	0.1
107302	Chloromethyl methyl ether	0.1
57578	beta-Propiolactone	0.1
100447	Benzyl chloride	0.04
98077	Benzotrichloride	0.0006
107028	Acrolein	0.04
584849	2,4-Toluene diisocyanate	0.1
75741	Tetramethyl lead	0.01
78002	Tetraethyl lead	0.01
12108133	Methylcyclopentadienyl manganese	0.1
624839	Methyl isocyanate	0.1
77474	Hexachlorocyclopentadiene	0.1
62207765	Fluomine	0.1
10210681	Cobalt carbonyl	0.1
79118	Chloroacetic acid	0.1
534521	4,6-Dinitro-o-cresol, and salts	0.1
101688	Methylene diphenyl diisocyanate	0.1
108952	Phenol	0.1
62384	Mercury, (acetato-o) phenyl	0.01
98862	Acetophenone	1.0
108316	Maleic anhydride	1.0
532274	2-Chloroacetophenone	0.06
51285	2,4-Dinitrophenol	1.0
109864	2-Methoxy ethanol	10.0
98953	Nitrobenzene	1.0
74839	Methyl bromide (Bromomethane)	10.0
75150	Carbon disulfide	1.0
121697	N,N-Dimethylaniline	1.0
106514	Quinone	5.0
123386	Propionaldehyde	5.0
120809	Catechol	5.0
85449	Phthalic anhydride	5.0
463581	Carbonyl sulfide	5.0
132649	Dibenzofurans	5.0
100027	4-Nitrophenol	5.0
540841	2,2,4-Trimethylpentane	5.0
111422	Diethanolamine	5.0
822060	Hexamethylene-1,6-diisocyanate	5.0

CAS No.	Chemical name	EPA de minimis, tons/yr*
	Glycol ethers ^a	5.0
	Polycyclic organic matter ^b	0.01

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

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

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

[63 FR 71383, Dec. 28, 1998]

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

**Technical Support Document (TSD) for a Part 70 Operating Permit Renewal
and Significant Source Modification**

Source Background and Description

Source Name:	Grabill Cabinet
Source Location:	13844 Sawmill Drive Allen, IN 46741
County:	Allen
SIC Code:	2434 (Wood Kitchen Cabinets)
Permit Renewal No.:	T003-36722-00038
Significant Source Modification No.:	T003-37217-00038
Permit Reviewer:	Clinton Mccrowey/Adam Wheat

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Grabill Cabinet relating to the operation of a stationary hardwood cabinet manufacturing operation. On January 15, 2016, Grabill Cabinet submitted an application to the OAQ requesting to renew its operating permit. On May 23, 2016, Grabill Cabinet submitted an application for a Significant Source Modification (SSM).

As part of this SSM and Renewal, Grabill Cabinet has requested to make the following modifications:

- (a) To modify surface coating booth operations to allow the use new/different coatings, to allow all the booths to be operated at the maximum capacity, and to allow all the booths to either perform surface coating or lamination for flexibility. As a result of the proposed modification, the change in the uncontrolled/unlimited PTE of 14 surface coating booths is greater than 25 tons/year and a Significant Source Modification (SSM) is required for this modification.
- (b) To update the woodworking operations to indicate that they are now controlled by 15 dust collectors (previously 8 dust collectors) with different outlet grain loading and flow rate values. The PTE emission calculations for the woodworking operations have been updated based on the updated control devices, outlet grain loading values, and flow rate values.
- (c) To add 55 existing natural gas-fired units and spray gun cleaning operation, as well as remove 2 natural gas-fired boilers.

In addition, IDEM OAQ has updated the description of the maximum capacity for the research and development booths from a maximum of 2 gallons of material per week to a maximum throughput of 5 units per hour. Finally, IDEM OAQ has changed the SIC Code for the source from 2599 to 2434.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) Fourteen (14) surface coating and laminating booths, each equipped with HVLP spray guns, using dry filters to control particulate emissions, with emissions exhausting through stacks, as identified in the following table:

Booth ID #	Date Constructed/Modified	Application Method	Control Device	Stack/Vent ID#
SB-1	1985	HVLP	Dry Filter	S-9
SB-2	1985	HVLP	Dry Filter	S-2
SB-3	1985	HVLP	Dry Filter	S-3
SB-4	2000	HVLP	Dry Filter	S-4
SB-5	2000	HVLP	Dry Filter	S-5
SB-6	2000	HVLP	Dry Filter	S-6
SB-7	2000	HVLP	Dry Filter	S-7
SB-8	2000	HVLP	Dry Filter	S-8
SB-9	2000	HVLP	Dry Filter	S-9
SB-10	1985	Low Pressure Spray	Dry Filter	S-10
SB-11	1985	Low Pressure Spray	Dry Filter	S-11
SB-12	2000	HVLP	Dry Filter	S-12
SB-14	2016	HVLP	Dry Filter	S-14
SB-15	1985	Low Pressure Spray	Dry Filter	S-15

Under the National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations (40 CFR 63, Subpart JJ), the fourteen (14) surface coating and laminating booths are considered to be existing wood furniture surface coating operations.

- (b) Research and development surface coating booth, identified as SB-13, consisting of one (1) insignificant surface coating booth used for research and development activity and developing new coating schemes, installed in 2001, exhausting to stack S-13, coating a maximum of 5 units per hour. [NESHAP, Subpart JJ]
- (c) Woodworking operations, consisting of various woodworking machines, with a maximum process weight of 6,500 pounds per hour, with emissions controlled by cyclones and/or baghouses, as specified in the following table.

Control Device ID	Control Type	Installation Year	Maximum Capacity (cfm)	Stack/Vent ID
DC-1	cyclone/baghouse	1985	9,000	Indoors
DC-2	cyclone/baghouse	1985	16,000	Indoors
DC-3	cyclone/baghouse	1985	55,000	DC-3/Indoors during the winter
DC-4	dust collector/rotoclone	2000	14,000	Indoors
DC-5	dalmatic baghouse	2000	10,000	Indoors
DC-6	dust collector	2000	4,000	Indoors
DC-7	return dust collector	2000	4,000	Indoors
DC-8	return dust collector	2000	4,000	Indoors
DC-9	return dust collector	2000	2,200	Indoors
DC-10	return dust collector	1985	4,000	Indoors
DC-11	return dust collector	1990	5,500	Indoors
DC-12	cyclone dust collector	2000	4,488	Indoors
DC-13	cyclone/return dust collector	2000	10,000	Indoors
DC-14	return dust collector	2000	8,000	Indoors
DC-15	dust collector	2000	2,200	Indoors

Insignificant Activities

The source also consists of the following insignificant activities:

- (a) Sixteen (16) natural gas-fired air make up units, identified as SH-1 through SH-16, with a maximum heat input capacity of 0.15 MMBtu/hr each, each unit constructed in 2000 and each exhausting to vents V-1 through V-16 respectfully.
- (b) One (1) natural gas-fired space heater, identified as SH-17, with a maximum heat input capacity of 5.30 MMBtu/hr constructed in 2000, and exhausting indoors.
- (c) One (1) natural gas fired air make up unit, identified as SH-18, with a maximum heat input capacity of 5.30 MMBtu/hr constructed in 2000, and exhausting indoors.
- (d) Five (5) natural gas-fired space heaters, identified as SH-19 through SH-23, with a maximum heat input capacity of 0.06 MMBtu/hr each, each unit constructed in 1995 and each exhausting to vents V-19 through V-23 respectfully.
- (e) Eight (8) natural gas-fired space heaters, identified as SH-24 through SH-31, with a maximum heat input capacity of 0.04 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-24 through V-31 respectfully.
- (f) Eight (8) natural gas-fired space heaters, identified as SH-32 through SH-39, with a maximum heat input capacity of 0.04 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-32 through V-39 respectfully.
- (g) Six (6) natural gas-fired space heaters, identified as SH-40 through SH-45, with a maximum heat input capacity of 0.1 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-40 through V-45 respectfully.
- (h) Six (6) natural gas-fired space heaters, identified as SH-46 through SH-51, with a maximum heat input capacity of 0.120 MMBtu/hr each, each unit constructed in 1998 and each exhausting to vents V-46 through V-51 respectfully.
- (i) One (1) natural gas-fired self-contained heating unit, identified as SH-52, with a maximum heat input capacity of 1.29 MMBtu/hr, constructed in 2000 and exhausting to stack ID S-12.
- (j) Three (3) natural gas-fired office forced air furnaces, identified as SH-53 through SH-55 with a maximum heat input capacity of 0.120 MMBtu/hr each, each unit constructed in 2000 and each exhausting to stack IDs S-53 through S-55 respectfully.
- (k) One (1) spray gun cleaning operation, identified as GC-1, approved in 2016 for construction, with a maximum throughput of 450 gallons of solvent per year, uncontrolled, and exhausting indoors.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, consisting of:
 - (1) One (1) natural gas-fired boiler for radiant heating, constructed in 1985, with a maximum heat input capacity of 3.0 MMBtu/hr, and exhausting to stack 1. [326 IAC 6-2-4].
 - (2) One (1) natural gas-fired boiler for radiant heating, constructed in 1985, with a maximum heat input capacity of 3.1 MMBtu/hr, and exhausting to stack 2. [326 IAC 6-2-4].

Existing Approvals

The source was issued Part 70 Operating Permit No. T003-30381-00038 on October 20, 2011. There have been no subsequent approvals issued.

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

Air Pollution Control Justification as an Integral Part of the Process

As part of the second Title V renewal No. T003-30381-00038, issued on October 20, 2011, IDEM, OAQ previously determined that the dust collectors an integral part of the woodworking operations as follows:

- (a) The air from the controls needs to be returned to the plant in order to minimize heat needed in the plant during winter.
- (b) For the health and safety of the employees and to minimize housekeeping expense, the controls need to be operated at 99.9% efficiency to return air.
- (c) The controls need to be operated near the work surface during finishing, molding and sanding operations, because the dust and chips generated during these operations would build up and cause quality problems.

IDEM, OAQ is not reevaluating the integral justification at this time. Therefore, the potential PM, PM_{2.5} and PM₁₀ emissions from the dust collectors will continue to be calculated after consideration of the woodworking operations for purposes of determining permitting level, 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), and 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) applicability.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Allen County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

- (a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Allen County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) PM_{2.5}
Allen County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Other Criteria Pollutants
Allen County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	673.91
PM10	674.33
PM2.5	674.33
SO2	0.04
NOx	7.26
VOC	825.74
CO	6.10
Total HAP	232.76
Highest Single HAP	230.58 (Xylene)

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

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

Permit Level Determination – Part 70 Modification to an Existing Source

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Total PTE Increase due to the Modification			
Pollutant	PTE New Emission Units (ton/yr)	Net Increase to PTE of Modified Emission Units (ton/yr)	Total PTE for New and Modified Units (ton/yr)
PM	0.14	665.6	665.7
PM ₁₀	0.55	665.6	666.1
PM _{2.5}	0.55	665.6	666.1
SO ₂	0.04	0.00	0.04
NO _x	7.26	0.00	7.26
VOC	1.95	743.5	745.5
CO	6.10	0.00	6.10
Total HAPs	1.07	220.0	221.1
Highest Single HAP	0.93 (MIBK)	159.8 (Xylene)	159.8 (Xylene)

This source modification is subject to 326 IAC 2-7-10.5(g)(4) because the potential to emit of PM, PM10, PM2.5, and VOC greater than twenty-five (25) tons per year before control. The modification will be incorporated into the Part 70 Operating Permit Renewal.

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process / Emission Unit	Project Emissions (ton/yr)						
	PM	PM₁₀	PM_{2.5}*	SO₂	NO_x	VOC	CO
Total for Modification**	33.54	33.95	33.95	0.04	7.26	226.95	6.10
PSD Major Source Thresholds	250	250	250	250	250	250	250

*PM_{2.5} listed is direct PM_{2.5}.
 **Pursuant to 326 IAC 6-3-2(d), the particulate emissions from surface coating and laminating booths and research and development booth shall be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with the manufacturer's specifications. Compliance with this standard, in conjunction with a conservative assumption of 95% capture and control, shall limit PM, PM10, and PM2.5 emissions from the surface coating operations to the values shown.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

This modification to an existing minor PSD stationary source is not major because the emissions increase of VOC will be limited to less than the PSD major source threshold and the emissions increase of each of the other PSD regulated pollutants are less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the total combined VOC input to the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) shall not exceed 225 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

Compliance with this limit, in conjunction with the potential to emit VOC from all other emission units at this source, shall limit the source-wide VOC emissions to less than 250 tons per 12 consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any new control equipment is considered federally enforceable only after issuance of this Part 70 permit renewal, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)								
	PM	PM ₁₀ *	PM _{2.5} *	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP (xylene)
14 Surface Coating and Laminating Booths***	32.83	32.83	32.83	-	-	225.00	-	227.74	227.74
Research and Development Booth***	0.57	0.57	0.57	-	-		-	3.95	2.84
Natural Gas Units	0.14	0.55	0.55	0.04	7.26	0.40	6.10	0.14	negl.
Woodworking	5.72	5.72	5.72	-	-		-	-	-
Spray Gun Cleaning Operation	-	-	-	-	-	1.55	-	0.93	-
Total PTE of Entire Source	39.26	39.68	39.68	0.04	7.26	226.95	6.10	323.76	230.58 (xylene)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . ***Pursuant to 326 IAC 6-3-2(d), the particulate emissions from surface coating and laminating booths and research and development booth shall be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with the manufacturer's specifications. Compliance with this standard, in conjunction with a conservative assumption of 95% capture and control, shall limit PM, PM10, and PM2.5 emissions from the surface coating operations to the values shown.									

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

(a) PSD Minor Status

This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the total combined VOC input to the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) shall not exceed 225 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

Compliance with this limit, in conjunction with the potential to emit VOC from all other emission units at this source, shall limit the source-wide VOC emissions to less than 250 tons per 12 consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(b) HAPs Major Status

This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Federal Rule Applicability

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Fossil-Fuel-Fired Steam Generators, 40 CFR 60, Subpart D (326 IAC 12) are not included in this permit, for the natural gas-fired combustion units (SH-1 through SH-55), since these units have a heat input capacity of less than 250 MMBtu/hr each.
- (b) The requirements of the New Source Performance Standard for Electric Utility Steam Generating Units, 40 CFR 60, Subpart Da (326 IAC 12) are not included in this permit, for the natural gas-fired combustion units (SH-1 through SH-55), since these units do not meet the definition of an electric utility steam generating unit as defined in 40 CFR § 60.41Da and have a heat input capacity of less than 250 MMBtu/hr each.
- (c) The requirements of the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db (326 IAC 12) are not included in this permit, for the natural gas-fired combustion units (SH-1 through SH-55), since these units have a heat input capacity of less than 100 MMBtu/hr each.
- (d) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40, Subpart Dc (326 IAC 12) are not included in this permit for the natural gas-fired combustion units (SH-1 through SH-55), since these units do not have a maximum heat input capacity between one hundred (100) MMBtu/hr and ten (10) MMBtu/hr each.
- (e) The requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60.310, Subpart EE (326 IAC 12), are not included in this permit, since the source does not operate a metal furniture surface coating operation.
- (f) The requirements of the New Source Performance Standard for Industrial Surface Coating: Large Appliances, 40 CFR 60.450, Subpart SS (326 IAC 12), are not included in this permit, since the source does not operate a surface coating operation in a large appliance surface coating line as defined in 40 CFR § 60.451.
- (g) The requirements of the New Source Performance Standard for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines, 40 CFR 60.720, Subpart TTT (326 IAC 12), are not included in this permit, since the source does not operate a spray booth in which plastic parts for the use in the manufacture of business machines receive prime coats, color coats or touch-up coats.
- (h) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) in the permit.

National Emission Standards for Hazardous Air Pollutants

- (i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T (63.460 through 63.470) (326 IAC 20-6), are not included in the permit, because the spray gun cleaning operation at this source does not use a degreasing solvent that contains any of the halogenated compounds listed in 40 CFR 63.460(a) at a concentration greater than 5% by weight.

(j) This source is subject to the requirements of 40 CFR 63, Subpart JJ, National Emission Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations (326 IAC 20-14), because this source performs wood furniture manufacturing operations and is a major source of HAPs. The affected source to which this subpart applies is each facility located at a source, engaged, either in part or in whole, in the manufacture of wood furniture or wood furniture components. This source is an existing source, because the wood furniture manufacturing and surface coating operations existed at this site prior to December 7, 1995. The affected facilities include the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15). Non applicable portions of the NESHAP will not be included in the permit. The the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) are subject to the following portions of Subpart JJ.

- (1) 40 CFR 63.800(a), (c), (d), (e), and (g)
- (2) 40 CFR 63.801
- (3) 40 CFR 63.802(a)
- (4) 40 CFR 63.803(a) through (g)
- (5) 40 CFR 63.803(h)(1) through (3), (h)(5), (h)(6)
- (6) 40 CFR 63.803(i) through (l)
- (7) 40 CFR 63.804(a)(1), (a)(2) and (a)(4)
- (8) 40 CFR 63.804(b)
- (9) 40 CFR 63.804(c)(1)
- (10) 40 CFR 63.804(f)
- (11) 40 CFR 63.804(g)(1) through (g)(3), (g)(5), (g)(7) and (g)(8)
- (12) 40 CFR 63.805(a)
- (13) 40 CFR 63.806(a) through (e)
- (14) 40 CFR 63.806(h) through (j)
- (15) 40 CFR 63.807(a), (c), (e)
- (16) 40 CFR 63.808
- (17) Tables 2 through 6 to 40 CFR 63, Subpart JJ (the applicable portions).

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

- (k) The requirements of 40 CFR 63, Subpart DDDD (4D), National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products, are not included in this permit, because this source does not manufacture plywood and/or composite wood products by bonding wood material (fibers, particles, strands, veneers, etc.) or agricultural fiber, generally with resin under heat and pressure, to form a structural panel or engineered wood product.
- (l) The requirements of 40 CFR 63, Subpart IIII (4I), National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks (326 IAC 20-85), are not included in this permit, because this source does not perform automobile or light-duty truck surface coating.
- (m) The requirements of 40 CFR 63, Subpart KKKK (4K), National Emission Standard for Hazardous Air Pollutants: Surface Coating of Metal Cans (326 IAC 20-86), are not included in this permit, because this source does not apply surface coating materials to metal cans or can ends.
- (n) The requirements of 40 CFR 63, Subpart MMMM (4M), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products (326 IAC 20-80), are not included in this permit, because this source does not surface coat miscellaneous metal parts.
- (o) The requirements of 40 CFR 63, Subpart NNNN (4N), National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances (326 IAC 20-63), are not included

- in this permit, because this source does not surface large appliance parts or products as defined in §63.4181.
- (p) The requirements of 40 CFR 63, Subpart PPPP (4P), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products (326 IAC 20-81), are not included in this permit, because this source perform surface coating on plastic parts.
 - (q) The requirements of 40 CFR 63, Subpart QQQQ (4Q), National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products (326 IAC 20-79), are not included in this permit, because this source perform surface coating on wood building products.
 - (r) The requirements of 40 CFR 63, Subpart RRRR (4R), National Emission Standard for Hazardous Air Pollutants: Surface Coating of Metal Furniture (326 IAC 20-78), are not included in this permit, because this source perform surface coating on metal furniture.
 - (s) The requirements of 40 CFR 63, Subpart SSSS (4S), National Emission Standard for Hazardous Air Pollutants: Surface Coating of Metal Coil (326 IAC 20-64), are not included in this permit, because this source perform surface coating on metal coils.
 - (t) The requirements of 40 CFR 63, Subpart HHHHHH (6H), National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources) are not included in this permit, because this source does not perform paint stripping operations, autobody refinishing operations, and does not apply coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), collectively referred to as the target HAP to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles or mobile equipment.
 - (u) The requirements of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ (6J), are not included in the permit, because the natural gas-fired combustion units (SH-1 through SH-55) are not considered boilers as defined in §63.11237.
 - (v) There are no other NESHAP (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (w) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of CAM to each existing emission unit and each emission limitation or standard for a specified pollutant based on the criteria specified under 40 CFR 64.2:

Emission Unit	Pollutant	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
14 Surface Coating and Laminating booths*	PM**	Y	Y	46.90	2.35	100	N	N
	PM ₁₀ /PM _{2.5}	Y	N	46.90	2.35	100	N	N
	VOC	N	Y	57.84	57.84	100	N	N
Research and Development booth	PM**	Y	Y	11.38	0.57	100	N	N
	PM ₁₀ /PM _{2.5}	Y	N	11.38	0.57	100	N	N
	VOC	N	Y	14.04	14.04	100	N	N
Woodworking Equipment	PM/PM ₁₀ /PM _{2.5}	Y	Y	2.86	2.86	100	N***	N

*CAM Analysis shown is for each individual booth. All 14 surface coating and laminating booths are identical.
 **Under 326 IAC 6-3-2. PM is limited as a surrogate for the Part 70 regulated pollutant, PM10. Therefore, uncontrolled PTE and controlled PTE reflect the emissions of PM10.
 ***Pursuant to 40 CFR Part 64.1, the control devices are considered to be inherent process equipment. Therefore, based on the evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable.

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

The cyclone and baghouses for the woodworking processes would be installed if no air quality regulations were in place in order to provide for employee safety and property protection. These cyclone and baghouses meet the definition of inherent process equipment and after careful review of the criteria set forth by the U.S. EPA for determining whether equipment is air pollution control equipment or process equipment, classification of the baghouses as process equipment is justified. Therefore, the woodworking operations at this source are not subject to Compliance Assurance Monitoring (CAM).

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the existing units as part of this Part 70 permit renewal.

State Rule Applicability - Entire Source

- (a) 326 IAC 1-6-3 (Preventive Maintenance Plan)
 The source is subject to 326 IAC 1-6-3.
- (b) 326 IAC 2-2 (PSD)
 PSD applicability is discussed under the Potential to Emit After Issuance section.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
 The coating operations are subject to NESHAP, Subpart JJ. Therefore the requirements of 326 IAC 2-4.1 do not apply to the coating operations.

- (d) 326 IAC 2-6 (Emission Reporting)
This source, not located in Lake, Porter, or LaPorte County, is subject to 326 IAC 2-6 (Emission Reporting), because it is required to have an operating permit pursuant to 326 IAC 2-7 (Part 70). The potential to emit of VOC and PM10 is less than 250 tons per year; and the potential to emit of CO, NOx, and SO2 is less than 2,500 tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(2), triennial reporting is required. An emission statement shall be submitted in accordance with the compliance schedule in 326 IAC 2-6-3 by July 1, 2016, and every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.
- (e) 326 IAC 2-7-6(5) (Annual Compliance Certification)
The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits, since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certification that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.
- (f) 326 IAC 5-1 (Opacity Limitations)
This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2).
- (g) 326 IAC 6-4 (Fugitive Dust Emissions)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2(1), (2) or (3).
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
This source is not subject to the requirements of 326 IAC 6-5, because it has potential fugitive particulate emissions less than 25 tons per.
- (i) 326 IAC 6.5 PM Limitations Except Lake County
This source is not subject to 326 IAC 6.5, because the source is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne. The source is located in Allen County.
- (j) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (k) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

State Rule Applicability – Individual Facilities

Surface Coating and Lamination Operations

- (a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1, the fourteen (14) surface coating and laminating booths and the one (1) research and development booth (SB-1 through SB-15) are subject to the requirements of 326 IAC 6-3, since the units each have the potential to use equal to or greater than five (5) gallons of coating per day. Pursuant to 326 IAC 6-3-2(d), the fourteen (14) surface coating and laminating booths and the one (1) research and development booth (SB-1 through SB-15) shall use dry filters for particulate control at all times the surface coating and laminating booths are in operation. The control device shall be operated with manufacturer's specifications.

(b) 326 IAC 8-1-6 (Volatile Organic Compounds - BACT)

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, which have potential volatile organic compound (VOC) emission of 25 tons per year or more, and which are not otherwise regulated by another provision of Article 8.

The fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) are regulated under the provisions of 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating) and therefore, are not subject to the provisions of 326 IAC 8-1-6.

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

Pursuant to 326 IAC 8-2-1 and 326 IAC 8-2-12, this rule applies to facilities located in any county, constructed after July 1, 1990, that perform surface coating of wood furniture (or wood furniture components), including cabinets (kitchen, bath and vanity), tables, beds, chairs, sofas (nonupholstered), art objects, and any other coated furnishings made of solid wood, wood composition or simulated wood material and which have actual emissions of greater than fifteen (15) pounds of VOC per day before add-on controls.

Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), when applying surface coatings to wood furniture and cabinets in the fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15), the Permittee shall apply all coating material, with the exception of no more than ten (10) gallons of coating per day used for touch-up and repair operations, using one (1) or more of the following application methods:

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

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

The fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15) are equipped with HVLP. Therefore, the surface coating processes are able to comply with this rule.

(d) 326 IAC 8-11 (Wood Furniture Coatings)

Pursuant to 326 IAC 8-11-1, this source is not subject to the requirements of 326 IAC 8-11, because the source is not located in one of the following counties: Lake, Porter, Clark, or Floyd County. This source is located in Allen County.

Woodworking Operations

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

Pursuant to 326 IAC 6-3-1(b), the requirements of 326 IAC 6-3-2 are not applicable to each of the woodworking operations, since each has potential particulate emissions after integral woodworking controls of less than five hundred fifty-one thousandths (0.551) pound per hour.

In order to assure that each of the woodworking operations is not subject to the requirements of 326 IAC 6-3-2, the integral dust collectors for particulate control shall be in operation and control

emissions from each of the woodworking operations at all times that each of the woodworking operations is in operation.

Natural Gas Combustion Units

- (f) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The natural gas-fired combustion units (SH-1 through SH-55) are each not subject to the requirements of 326 IAC 6-2, since these units are not sources of indirect heating pursuant to 326 IAC 6-2-1(a)
- (g) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1 the natural gas-fired combustion units (SH-1 through SH-55) are each not subject to the requirements of 326 IAC 6-3, since these units are each not considered a manufacturing processes and each has potential emissions less than five hundred fifty-one thousandths (0.551) pound per hour, pursuant to 326 IAC 6-3-1(b)(14).
- (h) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
The natural gas-fired combustion units (SH-1 though SH-55) are each not subject to the requirements of 326 IAC 7, since each unit has a potential to emit SO₂ of less than twenty-five (25) tons per year and a potential to emit of less than ten (10) pounds per hour pursuant to 326 IAC 7-1.1-1.
- (i) 326 IAC 8-1-6 (Volatile Organic Compounds - BACT)
The natural gas-fired combustion units (SH-1 though SH-55) are each not subject to the requirements of 326 IAC 8-1-6, since each unit has a potential to emit VOC of less than twenty-five (25) tons per year.
- (j) 326 IAC 9-1 (Carbon Monoxide Emission Limits)
The natural gas-combustion units (SH-1 through SH-55) are each not subject to the requirements of 326 IAC 9-1, since the source does not operate any petroleum refining, ferrous metal smelters or refuse incineration and refuse burning equipment.
- (k) 326 IC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)
The natural gas-fired combustion units (SH-1 through SH-55) are each not subject to 326 IAC 10-1, because the source is not located in either of Clark or Floyd Counties. The source is located in Allen County.

Spray Gun Cleaning Operation

- (l) 326 IAC 8-1-6 (General Reduction Requirements)
This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, which have potential volatile organic compound (VOC) emission of 25 tons per year or more, and which are not otherwise regulated by another provision of Article 8. The uncontrolled potential VOC emissions from the gun cleaner operation (GC-1) solvent usage is less than twenty-five (25) tons per year, therefore, the requirements of 326 IAC 8-1-6 do not apply are not included in the permit.
- (k) 326 IAC 8-3 (Organic Solvent Degreasing Operations)
Pursuant to 326 IAC 8-3-1:
 - (1) Pursuant to 326 IAC 8-3-1(c)(1)(B), the requirements of 326 IAC 8-3-2(a) apply to degreasers constructed after January 1, 1980, located anywhere in the state.

The spray gun cleaning operation, identified as GC-1, meets the definition of a cold cleaner degreaser as defined in 326 IAC 1-2-18.5, it was constructed in 2011, and it is located in Allen County. Therefore, this unit meets the applicability for this rule.

- (2) Pursuant to 326 IAC 8-3-1(c)(2)(A), the requirements of 326 IAC 8-3-2 apply to cold cleaner degreasers constructed after July 1, 1990, located anywhere in the state, which do not have a remote solvent reservoir.

The spray gun cleaning operation, identified as GC-1, is not equipped with a remote solvent reservoir, and it was constructed in 2016. Therefore, this unit meets the applicability for this rule.

- (3) The requirements of 326 IAC 8-3-8 apply to any source that uses solvent for use in cold cleaner degreasers on and after January 1, 2015, anywhere in the state.

The spray gun cleaning operation, identified as GC-1, meets the definition of a cold cleaner degreaser as defined in 326 IAC 1-2-18.5 and this source uses a solvent in GC-1 with a solvent VOC content that is greater than or equal to one percent (1%) VOC by weight, and this source is located in Allen County. Therefore, this unit meets the applicability for this rule.

In order to render the requirements of 326 IAC 8-3 not applicable, the source has agreed to limit VOC emissions from the spray gun cleaning operation to less than fifteen (15) pounds of VOC per day. The Permittee shall comply with the following:

The VOC input to the spray gun cleaning operation (GC-1) shall be less than fifteen (15) pounds per day of VOC.

Compliance with this limit shall render the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations) not applicable to the spray gun cleaning operation (GC-1).

The source has calculated the worst case solvent usage at 450 gallons of solvent per year in the spray gun cleaning operation. The spray gun cleaning operation will ship waste solvent offsite for recycling or disposal. Assuming that all of the waste solvent is emitted, the average daily potential to emit is 8.51 pounds of VOC per day. The source will be capable of complying with the fifteen (15) pounds of VOC per day limitation by keeping records of the average daily VOC emissions. IDEM, OAQ will not require reporting of daily VOC input to the spray gun cleaning operation.

Compliance Determination and Monitoring Requirements

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

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

- (1) The compliance monitoring requirements applicable to the surface coating operation and woodworking processes are as follows:

Emission Units	Control	Parameter	Frequency	Reason for compliance monitoring
Surface coating spray booths and laminating booths	Dry Filters	Filter inspection	Daily	To ensure that the filters operate properly in order to comply with 326 IAC 6-3-2 and 326 IAC 2-7 (Part 70).
		Overspray Observation	Weekly	
		Overspray on the rooftops and the ground	Monthly	
Woodworking processes	Baghouse	Visible emission notations	Daily (when venting outdoors)	To ensure that the filters operate properly in order to comply with 326 IAC 6-3-2 and 326 IAC 2-7 (Part 70).
		Baghouse inspection	Semiannually (when venting indoors)	

- (2) To determine compliance with the VOC input limit, the Permittee shall:

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

The source has calculated the worst case solvent usage at 450 gallons of solvent per year in the spray gun cleaning operation. The spray gun cleaning operation will ship waste solvent offsite for recycling or disposal. Assuming that all of the waste solvent is emitted, the average daily potential to emit is 8.51 pounds of VOC per day. The source will be capable of complying with the fifteen (15) pounds of VOC per day limitation by keeping records of the average daily VOC emissions. IDEM, OAQ will not require reporting of daily VOC input to the spray gun cleaning operation.

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 003-37217-00038. The operation of this stationary wood furniture manufacturing source shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T003-36722-00038. The staff recommend to the Commissioner that this Part 70 Significant Source Modification be approved.

The staff recommends to the Commissioner that the Significant Source Modification and Part 70 Operating Permit Renewal be approved. This recommendation is based on the following facts and conditions. Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Adam Wheat at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-8397 or toll free at 1-800-451-6027 extension 3-8397.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>

- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations
Summary of Source Modification**

Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton Mccrowey/Adam Wheat

Uncontrolled PTE Before Modification

Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP	
Surface Coating Booths (SB-01 through SB-12, SB-14, and SB-15)	2.48	2.48	2.48	-	-	80.26	-	11.67	7.03	Xylene
R&D Booth (SB-13)*	-	-	-	-	-	-	-	-	-	-
Total	2.48	2.48	2.48	0.00	0.00	80.26	0.00	11.67	7.03	Xylene

*R&D Booth previously uncalculated.

Uncontrolled PTE After Modification

Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP	
Surface Coating Booths (SB-01 through SB-12, SB-14, and SB-15)	656.67	656.67	656.67	-	-	809.75	-	227.74	163.99	Xylene
R&D Booth	11.38	11.38	11.38	-	-	14.04	-	3.95	2.84	Xylene
Total	668.1	668.1	668.1	0.00	0.00	823.8	0.00	231.69	166.83	Xylene

Total PTE of Modification

Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP	
Change in PTE of Modified Units	665.6	665.6	665.6	-	-	743.5	-	220.0	159.8	Xylene
New Natural Gas Units	0.14	0.55	0.55	0.04	7.26	0.40	6.10	0.14	0.13	Hexane
New Spray Gun Cleaning Operation	-	-	-	-	-	1.55	-	0.93	0.93	MIBK
Total	665.7	666.1	666.1	0.04	7.26	745.5	6.10	221.1	159.8	Xylene

Limited PTE of Modification

Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP	
Surface Coating Booths (SB-01 through SB-12, SB-14, and SB-15)	32.83	32.83	32.83	-	-	225.0	-	227.7	164.0	Xylene
R&D Booth	0.57	0.57	0.57	-	-		-	3.95	2.84	Xylene
New Natural Gas Units	0.14	0.55	0.55	0.04	7.26	0.40	6.10	0.14	0.13	Hexane
New Spray Gun Cleaning Operation	-	-	-	-	-	1.55	-	0.93	0.93	MIBK
Total	33.54	33.95	33.95	0.04	7.26	226.95	6.10	232.76	166.8	Xylene

**Appendix A: Emission Calculations
Summary of Emissions**

Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton Mccrowey/Adam Wheat

Unlimited/Uncontrolled Potential to Emit of the Entire Source Before Woodworking Integral Controls (ton/yr) ¹										
Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP (xylene)	
Surface Coating and Laminating Booths (SB-01 through SB-12, SB-14, SB-14)	656.67	656.67	656.67	-	-	809.75	-	227.74	227.74	xylene
Research and Development Booth (SB-13)	11.38	11.38	11.38	-	-	14.04	-	3.95	2.84	xylene
Natural Gas Units	0.14	0.55	0.55	0.04	7.26	0.40	6.10	0.14	-	-
Woodworking	572.11	572.11	572.11	-	-	-	-	-	-	-
Spray Gun Cleaning Operator	-	-	-	-	-	1.55	-	0.93	-	-
Total PTE	1,240	1,241	1,241	0.04	7.26	825.74	6.10	232.76	230.58	xylene

Unlimited Potential to Emit of the Entire Source After Integral Woodworking Controls (tons/year) ¹										
Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP (xylene)	
Surface Coating and Laminating Booths (SB-01 through SB-12, SB-14, SB-14)	656.67	656.67	656.67	-	-	809.75	-	227.74	227.74	xylene
Research and Development Booth (SB-13)	11.38	11.38	11.38	-	-	14.04	-	3.95	2.84	xylene
Natural Gas Units	0.14	0.55	0.55	0.04	7.26	0.40	6.10	0.14	-	-
Woodworking ²	5.72	5.72	5.72	-	-	-	-	-	-	-
Spray Gun Cleaning Operator	-	-	-	-	-	1.55	-	0.93	-	-
Total PTE	673.91	674.33	674.33	0.04	7.26	825.74	6.10	232.76	230.58	xylene

Limited/Controlled Potential to Emit of the Entire Source After Integral Controls (tons/year) ¹										
Emission Unit	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Highest Single HAP (xylene)	
Surface Coating and Laminating Booths (SB-01 through SB-12, SB-14, SB-14)**	32.83	32.83	32.83	-	-	225.00	-	227.74	227.74	xylene
Research and Development Booth (SB-13)**	0.57	0.57	0.57	-	-	-	-	3.95	2.84	xylene
Natural Gas Units	0.14	0.55	0.55	0.04	7.26	0.40	6.10	0.14	-	-
Woodworking	5.72	5.72	5.72	-	-	-	-	-	-	-
Spray Gun Cleaning Operator	-	-	-	-	-	1.55	-	0.93	-	-
Total PTE	39.26	39.68	39.68	0.04	7.26	226.95	6.10	232.76	230.58	xylene

"-" = negligible emissions

¹ In October 1993 a Final Order Granting Summary Judgment 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 are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, potential emissions for particulate matter were calculated after consideration of the controls for purposes of determining operating permit level and the applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

²Pursuant to 326 IAC 6-3-2(d), the particulate emissions from surface coating and laminating booths and R&D booth shall be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with the manufacturer's specifications. Compliance with this standard, in conjunction with a conservative assumption of 95% capture and control, shall limit PM, PM10, and PM2.5 emissions from the surface coating operations to the values shown.

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

**Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton Mccrowey/Adam Wheat**

Unit ID	description	Number of Units	Construction Date	Maximum Heat Capacity per unit (MMBtu/hr)	Total heat capacity (MMBtu/hr)
SH-1 - SH-16	Space Heater	16	2000	0.15	2.40
SH-17	Air Make-up Units	1	2000	5.30	5.30
SH-18	Air Make-up Unit	1	2000	5.30	5.30
SH-19 - SH-23	Space Heaters	5	1995	0.06	0.30
SH-24 - SH-31	Space Heaters	8	1998	0.04	0.32
SH-32 - SH-39	Space Heaters	8	1998	0.04	0.32
SH-40 - SH-45	Space Heaters	6	1998	0.10	0.60
SH-46 - SH-51	Space Heats	6	1998	0.12	0.72
SH-52	Self-contained heating uni	1	2000	1.29	1.29
SH-53 - SH-55	Office forced air furnaces	3	2000	0.12	0.36
Total	-	55		-	16.91

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
16.91	1020	145.2

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.14	0.55	0.55	0.04	7.26	0.40	6.10

*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 = 3:

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 1-03-006-0;
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBt
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants (HAPs)

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	1.5E-04	8.7E-05	5.4E-03	0.13	2.5E-04	0.14

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	3.6E-05	8.0E-05	1.0E-04	2.8E-05	1.5E-04	4.0E-04
					Total HAPs	0.14
					Worst HAP	0.13

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

**TSD Appendix A: Emissions Calculations
Particulate (PM/PM10/PM2.5) Emissions
from Woodworking Operations**

**Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton Mccrowey/Adam Wheat**

Unit ID/Control Device	Control Efficiency (%)	Outlet Grain Loading (grains/cub. ft.)	Air Flow Rate (cfm.)	PTE of PM/PM10/PM2.5 Before Controls (lb/hr)	PTE of PM/PM10/PM2.5 Before Controls (tons/yr)	PTE of PM/PM10/PM2.5 After Controls (lb/hr)	PTE of PM/PM10/PM2.5 After Controls (tons/yr)
DC-1	99.0%	0.001	9,000	7.71	33.79	0.077	0.34
DC-2	99.0%	0.001	16,000	13.71	60.07	0.137	0.60
DC-3	99.0%	0.001	55,000	47.14	206.49	0.471	2.06
DC-4	99.0%	0.001	14,000	12.00	52.56	0.120	0.53
DC-5	99.0%	0.001	10,000	8.57	37.54	0.086	0.38
DC-6	99.0%	0.001	4,000	3.43	15.02	0.034	0.15
DC-7	99.0%	0.001	4,000	3.43	15.02	0.034	0.15
DC-8	99.0%	0.001	4,000	3.43	15.02	0.034	0.15
DC-9	99.0%	0.001	2,200	1.89	8.26	0.019	0.08
DC-10	99.0%	0.001	4,000	3.43	15.02	0.034	0.15
DC-11	99.0%	0.001	5,500	4.71	20.65	0.047	0.21
DC-12	99.0%	0.001	4,488	3.85	16.85	0.038	0.17
DC-13	99.0%	0.001	10,000	8.57	37.54	0.086	0.38
DC-14	99.0%	0.001	8,000	6.86	30.03	0.069	0.30
DC-15	99.0%	0.001	2,200	1.89	8.26	0.019	0.08
Total				130.62	572.11	1.31	5.72

Methodology

Assume PM=PM10=PM2.5

PTE of PM/PM10/PM2.5 Before Controls (lb/hr) = PTE of PM/PM10/PM2.5 After Controls (lb/hr) / (1 - Control Efficiency)

PTE of PM/PM10/PM2.5 Before Controls (tons/yr) = PTE of PM/PM10/PM2.5 Before Controls (lbs/hr) x (8760 hr/yr) x (ton/2000 lb)

PTE of PM/PM10/PM2.5 After Controls (lbs/hr) = Outlet Grain Loading (grains/cub. ft.) x Air Flow Rate (acfm) x (60 min/hr) x (lb/7000 grains)

PTE of PM/PM10/PM2.5 After Controls (tons/yr) = PTE of PM/PM10/PM2.5 After Controls (lbs/hr) x (8760 hr/yr) x (ton/2000 lb)

Appendix A: Emissions Calculations
VOC and Particulate
 From Surface Coating Operations
 Fourteen (14) Surface Coating and Laminating Booths (SB-1 through SB-12, and SB-14, SB-15)

Company Name: **Grabill Cabinet**
 Source Address: **13844 Sawmill Road, Grabill, Indiana, 46741**
 Part 70 Permit Renewal No.: **T003-36722-00038**
 Significant Source Modification No.: **003-37171-00038**
 Reviewer: **Clinton McCrowley/Adam Wheat**

Number*	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water + Exempt-VOC	Weight % VOC	Volume % Water + Exempt-VOC	Volume % Non-Volatiles (solids)	Vol of Mat. (gal/unit)	Maximum (unit/hour)	Vol of Material per month (gal/month)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC tons per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
1	Cemcolor bright yellow colorant, Product Code: C31Y0010	9.10	45.40%	0.00%	45.40%	0.00%	46.54%	0.206	10.0	1483.2	4.13	4.13	8.51	204.17	37.26	22.41	8.87	50%
2	Cemcolor mon azo red, Product Code: C31R001	9.00	51.60%	0.00%	51.60%	0.00%	41.27%	0.206	10.0	1483.2	4.65	4.65	9.57	229.67	41.91	19.66	11.25	50%
3	Cemoglo black dye stain concentrate, Product Code: S75K002	6.85	96.52%	18.75%	77.77%	18.75%	2.12%	0.206	10.0	1483.2	6.56	5.33	10.98	263.52	48.09	1.08	251.63	50%
4	EnduraGreen brushmark boardwalk, Product Code: A60B000	11.61	41.83%	34.63%	7.20%	34.63%	40.75%	0.206	10.0	1483.2	1.28	0.84	1.72	41.30	7.54	30.46	2.05	50%
5	EnduraGreen brushmark mini, Product Code: A60G000	11.60	41.86%	34.73%	7.11%	34.73%	40.74%	0.206	10.0	1483.2	1.28	0.82	1.70	40.77	7.44	30.42	2.02	50%
6	EnduraGreen white brushmark, Product Code: A60W000	11.61	41.73%	34.66%	7.08%	34.66%	40.82%	0.206	10.0	1483.2	1.26	0.82	1.69	40.62	7.41	30.53	2.01	50%
7	FC-7740 baywood (S5310), Product Code: D22N0202t	7.33	79.89%	0.17%	79.73%	0.17%	17.04%	0.206	10.0	1483.2	5.85	5.84	12.04	288.93	52.73	6.65	34.29	50%
8	FC-7756 glenwood (S5210), Product Code: D22N0265t	7.81	69.62%	0.05%	69.57%	0.05%	22.51%	0.206	10.0	1483.2	5.44	5.43	11.19	268.62	49.02	10.71	24.13	50%
9	FP-18419 glacier, Product Code: E29A00358+K	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.43	38.40	23.17	10.31	50%
10	FP-19188 white dove, Product Code: E29CW1011+K	9.39	45.31%	0.00%	45.31%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.44	38.41	23.18	10.31	50%
11	FP-19187 cameo, Product Code: E29CW10149+K	9.40	45.28%	0.00%	45.28%	0.00%	41.31%	0.206	10.0	1483.2	4.26	4.26	8.77	210.40	38.40	23.20	10.30	50%
12	FP-19188 super white, Product Code: E29CW10107+K	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.43	38.40	23.17	10.31	50%
13	FP-19189 Cashmere, Product Code: E29N00512+K	9.45	45.05%	0.00%	45.05%	0.00%	41.34%	0.206	10.0	1483.2	4.26	4.26	8.77	210.55	38.42	23.43	10.30	50%
14	FP-19190 Buckwheat, Product Code: E29N00513+K	9.40	45.27%	0.00%	45.27%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.50	38.42	23.22	10.31	50%
15	FP-19191 pearl white, Product Code: E29CW10109+K	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.43	38.40	23.17	10.31	50%
16	FP-19192 Black, Product Code: P69R00019+K	9.19	45.12%	0.00%	45.09%	0.00%	41.61%	0.206	10.0	1483.2	4.14	4.14	8.53	204.78	37.37	22.74	9.85	50%
17	FP-19193 linen white, Product Code: E29CW10105+K	9.74	43.04%	0.00%	43.04%	0.00%	42.25%	0.206	10.0	1483.2	4.19	4.19	8.63	207.20	37.81	25.02	9.92	50%
18	FP-19194 antique white, Product Code: E29CW101052+K	9.40	45.27%	0.00%	45.27%	0.00%	41.30%	0.206	10.0	1483.2	4.26	4.26	8.77	210.45	38.41	23.22	10.31	50%
19	FP-19195 chiffon, Product Code: E29CW101053+K	9.39	45.31%	0.00%	45.31%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.43	38.40	23.18	10.31	50%
20	FP-19196 Buttercream, Product Code: E29Y00212+K	9.40	45.28%	0.00%	45.28%	0.00%	41.33%	0.206	10.0	1483.2	4.26	4.26	8.77	210.40	38.40	23.20	10.30	50%
21	FP-19197 canvas, Product Code: E29N00514+K	9.76	42.88%	0.00%	42.88%	0.00%	42.38%	0.206	10.0	1483.2	4.18	4.18	8.62	206.82	37.74	25.14	9.87	50%
22	FP-19198 eggshell, Product Code: E29CW101054+K	9.39	45.27%	0.00%	45.27%	0.00%	41.36%	0.206	10.0	1483.2	4.25	4.25	8.76	210.27	38.37	23.19	10.28	50%
23	FP-19199 red, Product Code: P69R00027+K	9.12	45.88%	0.02%	45.85%	0.02%	41.30%	0.206	10.0	1483.2	4.18	4.18	8.61	206.66	37.72	22.26	10.12	50%
24	FP-19200 florentine, Product Code: E29Y00213+K	9.43	45.16%	0.00%	45.16%	0.00%	41.32%	0.206	10.0	1483.2	4.26	4.26	8.77	210.51	38.42	23.32	10.31	50%
25	FP-19332 P-9355, Product Code: E29A00526+K	9.71	41.94%	0.02%	41.91%	0.02%	42.70%	0.206	10.0	1483.2	4.07	4.07	8.38	201.14	36.71	25.43	9.53	50%
26	FP-19813 white penny, Product Code: E29CW101088+K	9.50	44.57%	0.00%	44.57%	0.00%	41.60%	0.206	10.0	1483.2	4.23	4.23	8.72	209.36	38.21	23.76	10.18	50%
27	FP-19978 extra white 700g, Product Code: E29CW101175+K	8.39	45.31%	0.00%	45.31%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.44	38.41	23.18	10.31	50%
28	FPR-19541 gray primer, Product Code: P69A00058+K	10.20	43.47%	0.00%	43.47%	0.00%	37.69%	0.206	10.0	1483.2	4.43	4.43	9.13	219.21	40.00	26.01	11.77	50%
29	HC #46 stain base, Product Code: D22C009t	6.46	89.32%	0.01%	89.32%	0.01%	8.09%	0.206	10.0	1483.2	5.77	5.77	11.88	285.23	52.05	3.11	71.34	50%
30	HC 20 sheen white RTS classic-coat, Product Code: E29W00159+K	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.206	10.0	1483.2	4.26	4.26	8.77	210.43	38.40	23.16	10.31	50%
31	HC 60 sheen white lacquer, Product Code: E29W013t	8.24	69.07%	0.02%	69.05%	0.02%	17.31%	0.206	10.0	1483.2	5.69	5.69	11.73	281.40	51.36	11.50	32.89	50%
32	HC 844 stain base, Product Code: B10C001t	6.80	98.92%	19.08%	79.57%	19.08%	0.90%	0.206	10.0	1483.2	6.81	5.51	11.34	272.26	48.69	0.34	615.22	50%
33	HC acrylic glaze BS, Product Code: C37I000t	8.39	61.97%	0.30%	61.68%	0.30%	20.12%	0.206	10.0	1483.2	5.18	5.17	10.65	255.55	46.64	14.38	25.69	50%
34	HC Aristoccat catalyst, Product Code: M58C003t	7.55	78.93%	1.14%	77.79%	1.14%	13.40%	0.206	10.0	1483.2	5.94	5.88	12.11	290.53	53.02	7.18	43.85	50%
35	HC Aristoccat premium #10, Product Code: E29C6810+K	7.87	58.77%	4.39%	54.38%	4.39%	32.16%	0.206	10.0	1483.2	4.48	4.28	8.82	211.56	38.61	14.64	13.30	50%
36	HC Aristoccat premium #20, Product Code: E29C6820+K	7.87	58.39%	2.77%	55.62%	2.77%	32.64%	0.206	10.0	1483.2	4.50	4.38	9.02	216.60	39.51	14.78	13.42	50%
37	HC Aristoccat premium #40, Product Code: E29C6840+K	7.82	59.12%	2.81%	56.31%	2.81%	32.22%	0.206	10.0	1483.2	4.53	4.41	9.08	217.80	39.75	14.43	13.67	50%
38	HC Aristoccat premium #60, Product Code: E29C6860+K	7.81	59.33%	2.81%	56.51%	2.81%	32.11%	0.206	10.0	1483.2	4.54	4.41	9.09	218.21	39.82	14.33	13.75	50%
39	HC Aristovar plus 20, Product Code: E29C8720+K	7.87	61.80%	0.08%	61.73%	0.08%	36.14%	0.206	10.0	1483.2	4.86	4.85	10.00	240.02	43.80	13.55	16.11	50%
40	HC Aristovar plus 5, Product Code: E29C8705+K	7.93	61.91%	0.07%	61.84%	0.07%	29.67%	0.206	10.0	1483.2	4.91	4.90	10.10	242.46	44.25	13.63	16.53	50%
41	HC black veiling lacquer, Product Code: E31K011t	7.16	78.16%	18.10%	61.06%	18.10%	16.94%	0.206	10.0	1483.2	5.34	4.37	9.01	216.18	39.45	6.73	25.81	50%
42	HC burnt umber dispersion anti settle, Product Code: E29N100	12.76	18.51%	0.00%	18.51%	0.00%	63.55%	0.206	10.0	1483.2	2.36	2.36	4.87	116.79	21.31	46.90	3.72	50%
43	HC clear crackle lacquer, Product Code: L46C072t	7.26	87.83%	2.14%	85.69%	2.14%	7.69%	0.206	10.0	1483.2	6.36	6.22	12.82	307.70	56.16	3.99	80.95	50%
44	HC lawn breakaway glaze, Product Code: G36CW05	10.48	44.12%	0.00%	44.12%	0.00%	25.29%	0.206	10.0	1483.2	4.62	4.62	9.52	228.57	41.71	26.42	18.28	50%
45	HC gloss con varn, Product Code: E29C0729+K	7.88	63.69%	1.11%	62.58%	1.11%	28.97%	0.206	10.0	1483.2	4.98	4.93	10.15	243.64	44.47	12.90	17.01	50%
46	HC ivory breakaway glaze, Product Code: G36W003	10.60	43.66%	0.00%	43.66%	0.00%	25.41%	0.206	10.0	1483.2	4.63	4.63	9.54	228.85	41.76	26.95	18.22	50%
47	HC natural glaze, Product Code: G37I000t	7.14	73.73%	0.18%	73.55%	0.18%	18.95%	0.206	10.0	1483.2	5.26	5.25	10.82	259.62	47.38	8.46	27.71	50%
48	HC R66 antioctac enamel clear tint base #20, Product Code: P69C0008+K	9.21	44.80%	0.03%	44.77%	0.03%	41.47%	0.206	10.0	1483.2	4.13	4.12	8.50	203.91	37.21	22.94	9.95	50%
49	HC R66 HS classic-coat white prim, Product Code: P69W0050+K	10.84	26.05%	0.04%	26.01%	0.04%	45.25%	0.206	10.0	1483.2	3.91	3.90	8.04	192.98	35.22	31.28	8.63	50%
50	HC radiant stain base, Product Code: D22C014t	7.24	82.17%	0.02%	82.14%	0.02%	4.61%	0.206	10.0	1483.2	5.95	5.95	12.25	293.94	53.64	5.82	129.06	50%
51	HC 40 sheen WW lacquer, Product Code: L41C046t	7.52	78.36%	0.00%	78.36%	0.00%	15.15%	0.206	10.0	1483.2	5.89	5.89	12.14	291.27	53.16	7.34	38.88	50%
52	HC RIC 18 pad stain, Product Code: S79N031t	6.75	99.18%	4.25%	94.93%	4.25%	0.48%	0.206	10.0	1483.2	6.69	6.41	13.21	316.93	57.84	0.25	1333.26	50%
53	HC silver enamel, Product Code: L50Z006t	7.33	79.19%	0.08%	79.12%	0.08%	14.92%	0.206	10.0	1483.2	5.80	5.80	11.94	286.57	52.30	6.88	38.86	50%
54	HC trans red oxide dispersion anti settle, Product Code: E29R1014	9.91	23.98%	0.00%	23.98%	0.00%	63.50%	0.206	10.0	1483.2	2.38	2.38	4.89	117.45	21.43	33.98	3.74	50%
55	HC trans yellow oxide dispersion anti settle, Product Code: E29Y1000t	10.18	26.00%	0.00%	26.00%	0.00%	45.25%	0.206	10.0	1483.2	2.58	2.55	5.24	125.86	22.97	34.45	4.18	50%
56	HC VDB/1271 disp., Product Code: E29N100t	10.52	21.82%	0.13%	21.69%	0.13%	64.76%	0.206	10.0	1483.2	2.29	2.28	4.70	112.83	20.59	37.11	3.52	50%
57	rustic red SW 2175-30, Product Code: P69R00028+K	9.39	43.84%	0.02%	43.82%	0.02%	42.08%	0.206	10.0	1483.2	4.12	4.12	8.48	203.45	37.13	23.79	9.78	50%

Maximum PTE per booth **1483.2**
 Maximum PTE for 14 booths* **20,765**
 Dry Filter Control Efficiency **4,437**
 Potential to Emit After Controls per booth **610**
 Potential to Emit After Controls for 14 booths **8,503**
 Transfer Efficiency **95.0%**
 Potential to Emit After Controls per booth **2.35**
 Potential to Emit After Controls for 14 booths **32.83**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % VOC) / (1-Volume % water + exempt-VOC)
 Pounds of VOC per Gallon Coating

Appendix A: Emission Calculations
Fourteen (14) surface coating and laminating booths and one (1) research and development booth (SB-1 through SB-15)
Laminating Materials

Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton Mccrowey/Adam Wheat

Material	Usage Rate (lb/unit)	Maximum Throughput (unit/hour)*	% MDI	% Other VOC	Potential to Emit (tons/year)			
					MDI**	Other VOC	Uncontrolled Total VOC	Total HAPs
3M™ Polyurethane Multi-Purpose Adhesive 5010 Cream	1.58	140	15.0%	0.0%	2.2E-06	0.0E+00	2.2E-06	2.2E-06
Maximum PTE per booth					2.2E-06		2.2E-06	2.2E-06
Maximum PTE for 14 booths*					3.1E-05		3.1E-05	3.1E-05

Methodology:

** MDI emission factor is 0.015 lb emitted per million pounds of material used (0.000000015 lb/lb). Source: Polyurethane Division of the Society of the Plastics Industr

Tons MDI/yr= Usage Rate (lb/unit) *maximum throughput (unit/hr) * MDI emission factor * 8760 hr/yr * 1 ton/2000 lb

Tons Other VOC/yr = Usage Rate (lb/unit) * maximum throughput (unit/hr) * wt % Other VOC * 8760 hr/yr * 1 ton/2000 lb

MDI is a hazardous air pollutants (HAPs) and a Volatile Organic Compound (VOC);

MDI = p,p'-Methylenebis(phenyl Isocyanate)

*Source uses 14 surface coating and laminating booths. Maximum Throughput based on 10 units/hr/booth x 14 booths = 140 units/h

**Appendix A: Emissions Calculation
VOC and Particulate
From Surface Coating Operations
Research and Development Booth (SB-13)**

Company Name: **Grabill Cabinet**
Source Address: **13844 Sawmill Road, Grabill, Indiana, 4674***
Part 70 Permit Renewal No.: **T003-36722-00038**
Significant Source Modification No.: **003-37217-00038**
Reviewer: **Clinton Mccrowey/Adam Wheat**

Number*	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water + Exempt-VOC	Weight % VOC	Volume % Water + Exempt-VOC	Volume % Non-Volatiles (solids)	Vol of Mat (gal/unit)	Maximum (unit/hour)	Vol of Material per month (gal/Month)	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
1	Cemcolor bright yellow colorant, Product Code: C31Y001	9.10	45.40%	0.00%	45.40%	0.00%	46.54%	0.10	5.0	360.0	4.13	4.13	2.06	49.56	9.04	5.44	8.87	50%
2	Cemcolor mon.azo red, Product Code: C31R001	9.00	51.60%	0.00%	51.60%	0.00%	41.27%	0.10	5.0	360.0	4.65	4.65	2.32	55.74	10.17	4.77	11.25	50%
3	Cemoglo black dye stain concentrate, Product Code: S75K002	6.85	96.52%	18.75%	77.77%	18.75%	2.12%	0.10	5.0	360.0	6.56	5.33	2.67	63.96	11.67	0.26	251.63	50%
4	Enduragreen brushmark boardwalk, Product Code: A60B000	11.61	41.83%	34.63%	7.20%	34.63%	40.75%	0.10	5.0	360.0	1.28	0.84	0.42	10.02	1.83	7.39	2.05	50%
5	Enduragreen brushmark mint, Product Code: A60G000	11.60	41.86%	34.75%	7.11%	34.75%	40.74%	0.10	5.0	360.0	1.26	0.82	0.41	9.90	1.81	7.38	2.02	50%
6	Enduragreen white brushmark, Product Code: A60W000*	11.61	41.73%	34.66%	7.08%	34.66%	40.82%	0.10	5.0	360.0	1.26	0.82	0.41	9.86	1.80	7.41	2.01	50%
7	FC-7740 baywood (S5310), Product Code: D22N020*	7.33	79.89%	0.17%	79.73%	0.17%	17.04%	0.10	5.0	360.0	5.85	5.84	2.92	70.13	12.80	1.61	34.29	50%
8	FC-7756 glenwood (S5201), Product Code: D22N026*	7.81	69.62%	0.05%	69.57%	0.05%	22.51%	0.10	5.0	360.0	5.44	5.43	2.72	65.20	11.90	2.60	24.13	50%
9	FP-18419 glacier, Product Code: E29A00358+	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.07	9.32	5.62	10.31	50%
10	FP-19186 white dove, Product Code: E29CW01011+	9.39	45.31%	0.00%	45.31%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.08	9.32	5.63	10.31	50%
11	FP-19187 cameo, Product Code E29CW01049+	9.40	45.28%	0.00%	45.28%	0.00%	41.31%	0.10	5.0	360.0	4.26	4.26	2.13	51.07	9.32	5.63	10.30	50%
12	FP-19188 super white, Product Code: E29CW01007+	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.08	9.32	5.62	10.31	50%
13	FP-19189 Cashmere, Product Code: E29N00512+	9.45	45.05%	0.00%	45.05%	0.00%	41.34%	0.10	5.0	360.0	4.26	4.26	2.13	51.07	9.32	5.63	10.30	50%
14	FP-19190 Buckwheat, Product Code: E29N00513+	9.40	45.27%	0.00%	45.27%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.09	9.32	5.64	10.31	50%
15	FP-19191 pearl white, Product Code: E29CW01050+	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.08	9.32	5.62	10.31	50%
16	FP-19192 Black, Product Code: P69K00018+	9.19	45.12%	0.02%	45.09%	0.02%	41.61%	0.10	5.0	360.0	4.14	4.14	2.07	49.70	9.07	5.52	9.95	50%
17	FP-19193 linen white, Product Code: E29CW01051+	9.74	43.04%	0.00%	43.04%	0.00%	42.25%	0.10	5.0	360.0	4.19	4.19	2.10	50.29	9.18	6.07	9.92	50%
18	FP-19194 antique white, Product Code: E29CW01052+	9.40	45.27%	0.00%	45.27%	0.00%	41.30%	0.10	5.0	360.0	4.26	4.26	2.13	51.08	9.32	5.63	10.31	50%
19	FP-19195 chilton, Product Code: E29CW01053+	9.39	45.31%	0.00%	45.31%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.07	9.32	5.63	10.31	50%
20	FP-19196 Buttercream, Product Code E29Y00212+	9.40	45.28%	0.00%	45.28%	0.00%	41.33%	0.10	5.0	360.0	4.26	4.26	2.13	51.07	9.32	5.63	10.30	50%
21	FP-19197 canvas, Product Code: E29N00514+	9.76	42.88%	0.00%	42.88%	0.00%	42.38%	0.10	5.0	360.0	4.18	4.18	2.09	50.20	9.16	6.10	9.87	50%
22	FP-19198 eggshell, Product Code: E29CW01054+	9.39	45.27%	0.00%	45.27%	0.00%	41.36%	0.10	5.0	360.0	4.25	4.25	2.13	51.04	9.31	5.63	10.28	50%
23	FP-19199 red, Product Code: P69R00027+	9.12	45.88%	0.02%	45.85%	0.02%	41.30%	0.10	5.0	360.0	4.18	4.18	2.09	50.16	9.15	5.40	10.12	50%
24	FP-19200 florentine, Product Code: E29Y00213+	9.43	45.16%	0.00%	45.16%	0.00%	41.32%	0.10	5.0	360.0	4.26	4.26	2.13	51.10	9.32	5.66	10.31	50%
25	FP-19332 P-9355, Product Code: E29A00526+	9.71	41.94%	0.02%	41.91%	0.02%	42.70%	0.10	5.0	360.0	4.07	4.07	2.03	48.82	8.91	6.17	9.53	50%
26	FP-19813 white peony, Product Code: E29CW01088+	9.50	44.57%	0.00%	44.57%	0.00%	41.69%	0.10	5.0	360.0	4.23	4.23	2.12	50.82	9.27	5.77	10.18	50%
27	FP-19978 extra white 7006, Product Code: E29CW01175+	9.39	45.31%	0.00%	45.31%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.08	9.32	5.63	10.31	50%
28	FPR-19541 gray primer, Product Code: P69A00058+	10.20	43.47%	0.00%	43.47%	0.00%	37.69%	0.10	5.0	360.0	4.43	4.43	2.22	53.21	9.71	6.31	11.77	50%
29	HC #46 stain base, Product Code: D22C009;	6.46	89.32%	0.01%	89.32%	0.01%	8.09%	0.10	5.0	360.0	5.77	5.77	2.88	69.23	12.63	0.76	71.34	50%
30	HC 20 sheen white RTS classic-coat, Product Code: E29W00159+	9.39	45.32%	0.00%	45.32%	0.00%	41.29%	0.10	5.0	360.0	4.26	4.26	2.13	51.07	9.32	5.62	10.31	50%
31	HC 60 sheen white lacquer, Product Code: E29W01013;	8.24	69.07%	0.02%	69.05%	0.02%	17.31%	0.10	5.0	360.0	5.69	5.69	2.85	68.30	12.47	2.78	32.89	50%
32	HC 844 stain base, Product Code: E10C0011;	6.90	98.92%	19.08%	79.83%	19.08%	0.90%	0.10	5.0	360.0	6.81	5.51	2.75	66.08	12.06	0.08	615.22	50%
33	HC acrylic glaze BS, Product Code: G371000;	8.38	61.97%	0.30%	61.66%	0.30%	20.12%	0.10	5.0	360.0	5.18	5.17	2.58	62.03	11.32	3.49	25.69	50%
34	HC Aristoccat catalyst, Product Code: M95C003;	7.55	78.93%	1.14%	77.79%	1.14%	13.40%	0.10	5.0	360.0	5.94	5.88	2.94	70.52	12.87	1.74	43.85	50%
35	HC Aristoccat premium #10, Product Code: E29C6810+	7.87	58.77%	4.39%	54.38%	4.39%	32.16%	0.10	5.0	360.0	4.48	4.28	2.14	51.35	9.37	3.55	13.30	50%
36	HC Aristoccat premium #20, Product Code: E29C6820+	7.87	58.39%	2.77%	55.62%	2.77%	32.64%	0.10	5.0	360.0	4.50	4.38	2.19	52.55	9.59	3.59	13.42	50%
37	HC Aristoccat premium #40, Product Code: E29C6840+	7.82	59.12%	2.81%	56.31%	2.81%	32.22%	0.10	5.0	360.0	4.53	4.41	2.20	52.86	9.65	3.50	13.67	50%
38	HC Aristoccat premium #60, Product Code: E29C6860+	7.81	59.33%	2.81%	56.51%	2.81%	32.11%	0.10	5.0	360.0	4.54	4.41	2.21	52.96	9.67	3.48	13.75	50%
39	HC Aristovar plus 20, Product Code: E29C8720+	7.87	61.80%	0.08%	61.73%	0.08%	30.14%	0.10	5.0	360.0	4.86	4.85	2.43	58.26	10.63	3.29	16.11	50%
40	HC Aristovar plus 5, Product Code: E29C8705+	7.93	61.91%	0.07%	61.84%	0.07%	29.67%	0.10	5.0	360.0	4.91	4.90	2.45	58.85	10.74	3.31	16.53	50%
41	HC black veiling lacquer, Product Code: E31K011;	7.16	79.16%	18.10%	61.06%	18.10%	16.94%	0.10	5.0	360.0	5.34	4.37	2.19	52.47	9.58	1.63	25.81	50%
42	HC burnt umber dispersion anti settle, Product Code: E29N100	12.76	18.51%	0.00%	18.51%	0.00%	63.55%	0.10	5.0	360.0	2.36	2.36	1.18	28.35	5.17	11.38	3.72	50%
43	HC clear crackle lacquer, Product Code: L46C072;	7.26	87.83%	2.14%	85.69%	2.14%	7.69%	0.10	5.0	360.0	6.36	6.22	3.11	74.69	13.63	0.97	80.95	50%
44	HC lawn breakaway glaze, Product Code: G36C0705	10.48	44.12%	0.00%	44.12%	0.00%	25.23%	0.10	5.0	360.0	4.62	4.62	2.31	55.48	10.12	6.41	18.28	50%
45	HC gloss conw vam, Product Code: E29C0729+	7.88	63.69%	1.11%	62.58%	1.11%	28.97%	0.10	5.0	360.0	4.98	4.93	2.46	59.14	10.79	3.13	17.01	50%
46	HC ivory breakaway glaze, Product Code: G36W003;	10.60	43.66%	0.00%	43.66%	0.00%	25.41%	0.10	5.0	360.0	4.63	4.63	2.31	55.55	10.14	6.54	18.22	50%
47	HC natural glaze, Product Code: G371000;	7.14	73.73%	0.18%	73.55%	0.18%	18.95%	0.10	5.0	360.0	5.26	5.25	2.63	63.01	11.50	2.05	27.71	50%
48	HC R66 aristoccat enamel clear tint base #20, Product Code: P69C0008+	9.21	44.80%	0.03%	44.77%	0.03%	41.47%	0.10	5.0	360.0	4.13	4.12	2.06	49.49	9.03	5.57	9.95	50%
49	HC R66 HS classic-coat white prmr, Product Code: P69W0050+*	10.84	36.05%	0.04%	36.01%	0.04%	45.29%	0.10	5.0	360.0	3.91	3.90	1.95	46.84	8.55	7.59	8.63	50%
50	HC radiant stain base, Product Code: D22C014;	7.24	82.17%	0.02%	82.14%	0.02%	4.61%	0.10	5.0	360.0	5.95	5.95	2.97	71.35	13.02	1.41	129.06	50%
51	HC 40 sheen WW lacquer, Product Code: L41C046;	7.52	78.36%	0.00%	78.36%	0.00%	15.15%	0.10	5.0	360.0	5.89	5.89	2.95	70.70	12.90	1.78	38.88	50%
52	HC RIC 18 pad stain, Product Code: S79N031;	6.75	99.18%	4.25%	94.93%	4.25%	0.48%	0.10	5.0	360.0	6.69	6.41	3.21	76.92	14.04	0.06	1333.26	50%
53	HC silver enamel, Product Code: L50Z006;	7.33	79.19%	0.08%	79.12%	0.08%	14.92%	0.10	5.0	360.0	5.80	5.80	2.90	69.55	12.69	1.67	38.86	50%
54	HC trans red oxide dispersion anti settle, Product Code: E29RI014	9.91	23.98%	0.00%	23.98%	0.00%	63.50%	0.10	5.0	360.0	2.38	2.38	1.19	28.51	5.20	8.25	3.74	50%
55	HC trans yellow oxide dispersion anti settle, Product Code: E29YI000*	10.18	25.00%	0.00%	25.00%	0.00%	60.86%	0.10	5.0	360.0	2.55	2.55	1.27	30.55	5.57	8.36	4.18	50%
56	HC VDB/1271 dsp, Product Code: E29N100;	10.52	21.82%	0.13%	21.69%	0.13%	64.76%	0.10	5.0	360.0	2.29	2.28	1.14	27.38	5.00	9.01	3.52	50%
57	rustic red SW 2175-30, Product Code: P69R00028+*	9.39	43.84%	0.02%	43.82%	0.02%	42.08%	0.10	5.0	360.0	4.15	4.12	2.06	49.38	9.01	5.77	9.78	50%

Maximum PTE per booth: **76.92**
Dry Filter Control Efficiency Potential to Emit After Control: **14.04**
95.00%
0.57

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % VOC) / (1-Volume % water + exempt-VOC)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % VOC)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lb)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lb)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % VOC) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used
Source uses a mixture of HVLP (75% transfer efficiency) and Low Pressure Spray Application (50% transfer efficiency) methods for surface coating materials, worst case transfer efficiency assumed for all surface coating applical
Gal of Material per month (gal/Month) = Gal of Mat. (gal/unit) * Maximum (unit/hour) * 24 * ;
*Source uses 14 surface coating and laminating booth

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations
Research and Development Booth (SB-13)**

**Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton McCrewey/Adam Wheat**

Material Number*	Material	Density (lbs/gal)	Gallons of Material (gal/unit)	Maximum Throughput (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Formaldehyde	Weight % Benzene	Weight % Hexane	Weight % Glycol Ethers	Weight % Methanol	Weight % Ethylbenzene	Weight % Cumene	Weight % Methanol	Weight % Methyl isobutyl ketone (Hexone)	Weight % Methylmethacrylate	Weight % Naphthalene	Weight % Diethylene glycol monomethyl ether	Weight % Styrene	Weight % Triethylamine	Weight % Diethylene glycol
1	Cemcolor bright yellow colorant, Product Code: C31Y0010	9.10	0.10	5.0	2.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	Cemcolor mon azo red, Product Code: C31R001	9.00	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	Cemcolor black dye stain concentrate, Product Code: S75K002	6.85	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4	Enduragreen brushmark boardwalk, Product Code: A60B000	11.61	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5	Enduragreen brushmark mint, Product Code: A60G000	11.60	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	Enduragreen white brushmark, Product Code: A60W000	11.61	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.12%	0.00%
7	FC-7740 baywood (S5310), Product Code: D22N0202	7.33	0.10	5.0	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
8	FC-7756 glenwood (S5201), Product Code: D22N0265	7.81	0.10	5.0	0.95%	3.38%	0.00%	0.02%	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
9	FP-18419 glacier, Product Code: E29A00358+	9.39	0.10	5.0	9.90%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
10	FP-19186 white dove, Product Code: E29CW1011+	9.39	0.10	5.0	9.83%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
11	FP-19187 cameo, Product Code: E29CW10149+	9.40	0.10	5.0	9.81%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12	FP-19188 super white, Product Code: E29CW10074+	9.39	0.10	5.0	9.83%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.12%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
13	FP-19189 Cashmere, Product Code: E29N005124+	9.45	0.10	5.0	9.62%	0.00%	0.11%	0.00%	0.00%	0.00%	0.00%	2.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	FP-19190 Buckwheat, Product Code: E29N005134+	9.40	0.10	5.0	9.78%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15	FP-19191 pearl white, Product Code: E29CW101054+	9.39	0.10	5.0	9.83%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
16	FP-19192 Black, Product Code: P69K00018+	9.19	0.10	5.0	1.41%	6.18%	0.09%	0.00%	0.00%	0.00%	0.00%	0.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
17	FP-19193 linen white, Product Code: E29CW1010514+	9.74	0.10	5.0	9.03%	0.00%	0.11%	0.00%	0.00%	0.00%	0.00%	1.94%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	FP-19194 antique white, Product Code: E29CW1010524+	9.40	0.10	5.0	9.80%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
19	FP-19195 chiffon, Product Code: E29CW1010534+	9.39	0.10	5.0	9.83%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20	FP-19196 Buttercream, Product Code: E29V002124+	9.40	0.10	5.0	0.00%	0.00%	0.12%	0.00%	9.76%	0.00%	0.00%	2.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
21	FP-19197 canvas, Product Code: E29N005144+	9.76	0.10	5.0	8.92%	0.00%	0.11%	0.00%	0.00%	0.00%	0.00%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	FP-19198 eggshell, Product Code: E29CW1010544+	9.39	0.10	5.0	9.75%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23	FP-19199 red, Product Code: P69R003274+	9.12	0.10	5.0	1.27%	5.60%	0.09%	0.00%	0.00%	0.00%	0.00%	0.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
24	FP-19200 florentine, Product Code: E29Y002134+	9.43	0.10	5.0	9.71%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
25	FP-19332 P-9355, Product Code: E29A005264+	9.71	0.10	5.0	1.29%	5.66%	0.09%	0.00%	0.00%	0.00%	0.00%	0.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
26	FP-19813 white peony, Product Code: E28CW1010884+	9.50	0.10	5.0	9.58%	0.00%	0.11%	0.00%	0.00%	0.00%	0.00%	2.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
27	FP-19878 extra white 7006, Product Code: E29CW1011754+	9.39	0.10	5.0	9.89%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28	FP-19541 gray primer, Product Code: P69A000584+	10.20	0.10	5.0	12.73%	0.13%	0.00%	0.00%	0.00%	0.00%	0.00%	4.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29	HC #46 stain base, Product Code: D22C0002	6.46	0.10	5.0	0.13%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.33%	0.33%
30	HC 20 sheen white RTS classic-coat, Product Code: E29W001594+	9.39	0.10	5.0	9.91%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	2.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
31	HC 60 sheen white lacquer, Product Code: E28W013	8.24	0.10	5.0	2.56%	4.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
32	HC #44 stain base, Product Code: B10C0011	6.90	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
33	HC acrylic glaze BS, Product Code: G37I0004	9.39	0.10	5.0	0.01%	7.71%	0.00%	0.01%	0.00%	0.00%	0.00%	0.07%	0.05%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
34	HC Aristocast catalyst, Product Code: M59C003	7.55	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
35	HC Aristocast premium #10, Product Code: E29C68104+	7.87	0.10	5.0	1.37%	0.01%	0.11%	0.00%	0.00%	0.00%	0.00%	0.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
36	HC Aristocast premium #20, Product Code: E29C68204+	7.87	0.10	5.0	1.40%	0.01%	0.12%	0.00%	0.00%	0.00%	0.00%	0.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
37	HC Aristocast premium #40, Product Code: E29C68404+	7.82	0.10	5.0	1.42%	0.00%	0.12%	0.00%	0.00%	0.00%	0.00%	0.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
38	HC Aristocast premium #60, Product Code: E29C68604+	7.81	0.10	5.0	1.42%	0.01%	0.12%	0.00%	0.00%	0.00%	0.00%	0.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
39	HC Aristovar plus 20, Product Code: E29C87204+	7.87	0.10	5.0	1.11%	11.65%	0.11%	0.00%	0.00%	0.00%	0.00%	0.37%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
40	HC Aristovar plus 5, Product Code: E29C87054+	7.93	0.10	5.0	1.04%	10.97%	0.10%	0.00%	0.00%	0.00%	0.00%	0.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
41	HC black veiling lacquer, Product Code: E31K0011	7.16	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
42	HC burnt umber dispersion anti settle, Product Code: E29N100	12.76	0.10	5.0	0.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
43	HC clear crackle lacquer, Product Code: L46C0072	7.26	0.10	5.0	2.77%	4.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
44	HC fawn breakaway glaze, Product Code: G36C005	10.48	0.10	5.0	1.47%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.31%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
45	HC gloss con varn, Product Code: E29C07294+	7.88	0.10	5.0	1.14%	9.04%	0.10%	0.01%	0.00%	0.00%	0.00%	0.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
46	HC ivory breakaway glaze, Product Code: G36W003	10.60	0.10	5.0	1.44%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
47	HC natural glaze, Product Code: G37I000	7.14	0.10	5.0	0.92%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
48	HC R66 aristocast enamel clear tint base #20, Product Code: P69C0008+	9.21	0.10	5.0	2.02%	6.80%	0.19%	0.00%	0.00%	0.00%	0.00%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
49	HC R66 HS classic-coat white pmr, Product Code: P69W00504+	10.84	0.10	5.0	2.73%	4.01%	0.07%	0.00%	0.00%	0.00%	0.00%	0.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
50	HC radiant stain base, Product Code: D22C014	7.24	0.10	5.0	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
51	HC 40 sheen WW lacquer, Product Code: L41C046C	7.52	0.10	5.0	4.40%	8.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.86%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
52	HC RIC 18 pad stain, Product Code: S79N0311	6.75	0.10	5.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
53	HC silver enamel, Product Code: L59Z006	7.33	0.10	5.0	0.00%	2.58%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.15%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
54	HC trans red oxide dispersion anti settle, Product Code: E29R1014	9.91	0.10	5.0	2.08%	0.22%	0.00%	0.02%	0.00%	0.00%	0.00%	0.28%	0.02%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
55	HC trans yellow oxide dispersion anti settle, Product Code: E29Y1000	10.18	0.10	5.0	2.08%	0.22%	0.00%	0.02%	0.00%												

**Appendix A: Emissions Calculations
VOC From Spray Gun Cleaning Operation**

Company Name: Grabill Cabinet
Source Address: 13844 Sawmill Road, Grabill, Indiana, 46741
Part 70 Permit Renewal No.: T003-36722-00038
Significant Source Modification No.: 003-37217-00038
Reviewer: Clinton Mccrowey/Adam Wheat

Product	Density (lbs/gal)	Material Throughput (gal/yr)*	Material Throughput (lbs/yr)	Weight % VOC	Weight % MIBK	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of MIBK (tons/yr)
Safety-Kleen Heavy Duty Lacquer Thinner	6.90	450	3,105	100.00%	60.00%	8.51	1.55	0.93

*Based on purchase information provided by the source.

METHODOLOGY

Material Throughput (lbs/yr) = Density (lbs/gal) * Material Throughput (gal/yr)

PTE of VOC (lbs/day) = Material Throughput (lbs/yr) * Weight % VOC / 365 (days/yr)

PTE of VOC (tons/yr) = PTE of VOC (lbs/day) * 365 (days/yr) / 2000 (tons/yr)



Indiana Department of Environmental Management

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

Notice of Public Comment

July 29, 2016
Grabill Cabinet
003-36722-00038 & 003-37217-00038

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 2/17/2016



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AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

July 29, 2016

A 30-day public comment period has been initiated for:

Permit Number: 003-36722-00038 & 003-37217-00038
Applicant Name: Grabill Cabinet
Location: Grabill, Allen County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification.dot 2/17/2016



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Commissioner

July 29, 2016

Mr. Martin Heiny
Grabill Cabinet
13844 Sawmill Road
Grabill, IN, 46741

Re: Public Notice
Grabill Cabinet
Permit Level: Part 70 Operating Permit Renewal &
Significant Source Modification
Permit Number: 003-36722-00038 &
003-37217-00038

Dear Mr. Heiny:

Enclosed is a copy of your draft Part 70 Operating Permit Renewal, Significant Source Modification, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Journal Gazette in Fort Wayne, Indiana publish the abbreviated version of the public notice no later than August 2, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Allen County Library (Grabill Branch), 13521 State Street in Grabill, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Adam Wheat, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-8397 or dial (317) 233-8397.

Sincerely,

Greg Hotopp

Greg Hotopp
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016



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Carol S. Comer
Commissioner

July 29, 2016

To: Allen County Public Library (Grabill Branch)

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Grabill Cabinet
Permit Number: 003-36722-00038 & 003-37217-00038

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 2/16/2016



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Governor

Carol S. Comer
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

July 29, 2016

Journal Gazette
600 W Main Street
PO Box 100
Fort Wayne, IN 46801

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Grabill Cabinet, Allen County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than August 2, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Greg Hotopp at 800-451-6027 and ask for extension 4-3493 or dial 317-234-3493.

Sincerely,

Greg Hotopp

Greg Hotopp
Permit Branch
Office of Air Quality

Permit Level: Part 70 Operating Permit Renewal & Significant Source Modification

Permit Number: 003-36722-00038 & 033-37217-00038

Enclosure

PN Newspaper.dot 2/17/2016

Mail Code 61-53

IDEM Staff	GHOTOPP 7/29/2016 Grabill Cabinet 003-37217&36722-00038 Draft		Type of Mail: CERTIFICATE OF MAILING ONLY	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		

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1		Martin Heiny Grabill Cabinet 13844 Sawmill Dr Grabill IN 46741 (Source CAATS)										
2		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)										
3		Duane & Deborah Clark Clark Farms 6973 E. 500 S. Columbia City IN 46725 (Affected Party)										
4		Mr. Jeff Coburn Plumbers & Steamfitters, Local 166 2930 W Ludwig Rd Fort Wayne IN 46818-1328 (Affected Party)										
5		Grabill Town Council P.O. Box 321, 13717 First Street Grabill IN 46741 (Local Official)										
6		Allen Co. Board of Commissioners 200 E Berry Street Ste 410 Fort Wayne IN 46802 (Local Official)										
7		Fort Wayne-Allen County Health Department 200 E Berry St Suite 360 Fort Wayne IN 46802 (Health Department)										
8		Grabill Library Allen County Public Library 13521 State Street Grabill IN 46741 (Library)										
9		Peter Keck Compliance Consulting Service, Inc.. 207 Hoosier Drive, Suite #4 Angola IN 46703 (Consultant)										
10												
11												
12												
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