

039-47991-00245

MAI 29660

## ***D&B Environmental Consulting, LLC***

**401 Lincoln Way West  
Osceola, Indiana 46561  
(574) 674-0161**

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June 17, 2024

Indiana Department of Environmental Management  
Office of Air Quality, Permits Branch  
c/o Mail Code 61-53, IGCN 1003  
100 N. Senate Ave.  
Indianapolis, IN 46204-2251

Received  
State of Indiana

JUL 01 2024

Dept of Environmental Mgmt  
Office of Air Quality

**RE: Application for Administrative Amendment  
Patrick Industries, Inc. d/b/a Middlebury Hardwood Products  
Source ID No. 039-00245**

To Whom It May Concern:

Patrick Industries, Inc. d/b/a Middlebury Hardwood Products is submitting the enclosed application for the purpose of requesting an Administrative Amendment to its Part 70 (Title V) Operating Permit T039-463714-00245.

A copy of this application has been submitted to the Middlebury Public Library at the address below.

Please review this application and should you have any further questions, please contact me at 574-674-0161.

Thank you for your consideration in this matter.

Sincerely,

*Kevin A. Parks*

Kevin A. Parks  
Senior Project Manager

Enclosure: Air Permit Application

CC: Middlebury Public Library, Reference Desk, 101 E. Winslow Street, Middlebury, IN 46540 w/Enclosure

Mr. Doug Batton, Patrick Industries, Inc. d/b/a Middlebury Hardwood Products  
w/Enclosure



**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R3 / 11-07)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page. Also send a copy to the local agency (if applicable).
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed **instructions** for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/coverinstructions.html](http://www.in.gov/idem/permits/air/apps/instructions/coverinstructions.html).

**IDEM - Office of Air Quality - Permits Branch**  
 100 N. Senate Avenue, MC 61-53, Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

**FOR OFFICE USE ONLY**

**PERMIT NUMBER:**

**DATE APPLICATION WAS RECEIVED:**

Received  
 State of Indiana  
 JUL 01 2024  
 Dept of Environmental Mgmt  
 Office of Air Quality

1. Tax ID Number:

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: Patrick Industries, Inc. d/b/a Middlebury Hardwood Products

3. Plant ID: 039-00245

4. Billing Address: 101 Joan St.

City: Middlebury

State: IN

ZIP Code: 46540

5. Permit Level:  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

6. Application Summary: Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input checked="" type="checkbox"/> Renewal of Operating Permit | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit         | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source          | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry     |  |

Transition (between permit levels) From: To:

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|   | <input type="checkbox"/> Correction to Non-Technical Information | <input checked="" type="checkbox"/> Notice Only Change  |
|   | <input type="checkbox"/> Other (specify):                        |   |

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Modification: | <input type="checkbox"/> New Emission Unit or Control Device     | <input type="checkbox"/> Modified Emission Unit or Control Device        |
|  | <input type="checkbox"/> New Applicable Permit Requirement       | <input type="checkbox"/> Change to Applicability of a Permit Requirement |
|  | <input type="checkbox"/> Prevention of Significant Deterioration | <input type="checkbox"/> Emission Offset                                 |
|  | <input type="checkbox"/> Minor Source Modification               | <input type="checkbox"/> Significant Source Modification                 |
|  | <input type="checkbox"/> Minor Permit Modification               | <input type="checkbox"/> Significant Permit Modification                 |
|  | <input type="checkbox"/> Other (specify):                        |  |

7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?  Yes  No

8. Is this an application for construction of a new emissions unit at an Existing Source?  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No       Yes:    *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No       Yes:    *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

Yes     No

### PART D: Certification Of Truth, Accuracy, and Completeness

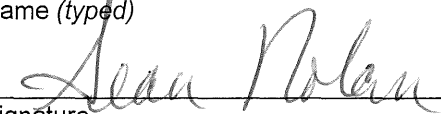
Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

Sean Nolan  
Name (typed)

Business Unit Director  
Title

  
Signature

6/18/2024  
Date



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-01: Basic Source Level Information**  
 State Form 50640 (R4 / 9-06)  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

Received  
 State of Indiana

JUL 01 2024



Dept of Environmental Mgmt  
 Office of Air Quality

**IDEM - Office of Air Quality - Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

**NOTES:**

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed **instructions** for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/gsd01instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/gsd01instructions.html).
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

1. <b>Source / Company Name:</b> Patrick Industries, Inc. d/b/a Middlebury Hardwood Products		2. <b>Plant ID:</b> 039 – 00245	
3. <b>Location Address:</b> 101 Joan Drive			
City: Middlebury		State: IN	ZIP Code: 46540 –
4. <b>County Name:</b> Elkhart		5. <b>Township Name:</b> Middlebury	
6. <b>Geographic Coordinates:</b>			
Latitude: 41.64735410		Longitude: -85.70646379	
7. <b>Universal Transferal Mercadum Coordinates (if known):</b>			
Zone:		Horizontal:	Vertical:
8. <b>Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input type="checkbox"/> Illinois (IL) <input checked="" type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
9. <b>Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
10. <b>Portable / Stationary:</b> Is this a portable or stationary source? <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Stationary			

**PART B: Source Summary**

11. <b>Company Internet Address (optional):</b>	
12. <b>Company Name History:</b> Has this source operated under any other name(s)? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>	
13. <b>Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>	
14. <b>Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>	
15. <b>Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>	
16. <b>New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>	
17. <b>Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: – –	

**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

18. Name of Source Contact Person: Doug Batton		
19. Title (optional): IT Manager		
20. Mailing Address: 101 Joan Drive		
City: Middlebury	State: IN	ZIP Code: 46540 -
21. Electronic Mail Address (optional): dougbatton@mhpi.us		
22. Telephone Number: ( 574 ) 825 - 9524	23. Facsimile Number (optional): ( ) -	

**PART D: Authorized Individual/Responsible Official Information**

**IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.**

24. Name of Authorized Individual or Responsible Official: Sean Nolan		
25. Title: Business Unit Director		
26. Mailing Address: 101 Joan Drive		
City: Middlebury	State: IN	ZIP Code: 46540 -
27. Telephone Number: ( 574 ) 825 - 9524	28. Facsimile Number (optional): ( ) -	
29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? <i>The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.</i>		
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - <b>Change Responsible Official to:</b>		

**PART E: Owner Information**

30. Company Name of Owner: Patrick Industries, Inc.		
31. Name of Owner Contact Person: Mark Styers		
32. Mailing Address: PO Box 638		
City: Elkhart	State: IN	ZIP Code: 46515 - 0638
33. Telephone Number: ( 800 ) 331 - 2151	34. Facsimile Number (optional): ( 574 ) 522 - 5213	
35. Operator: Does the "Owner" company also operate the source to which this application applies?		
<input type="checkbox"/> No - Proceed to Part F below. <input checked="" type="checkbox"/> Yes - Enter "SAME AS OWNER" on line 35 and proceed to Part G below.		

**PART F: Operator Information**

36. Company Name of Operator: Same as Owner		
37. Name of Operator Contact Person:		
38. Mailing Address:		
City:	State:	ZIP Code: -
39. Telephone Number: ( ) -	40. Facsimile Number (optional): ( ) -	

**PART G: Agent Information**

41. **Company Name of Agent:** D&B Environmental Consulting, LLC

42. **Type of Agent:**  Environmental Consultant  Attorney  Other (specify):

43. **Name of Agent Contact Person:** Kevin Parks

44. **Mailing Address:** 401 Lincoln Way West

City: Osceola	State: IN	ZIP Code: 46561 –
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45. **Electronic Mail Address (optional):** kpark@dbesi.com

46. **Telephone Number:** ( 574 ) 674 – 0161

47. **Facsimile Number (optional):** ( 574 ) 674 – 2778

48. **Request for Follow-up:** Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination?  No  Yes

**PART H: Local Library Information**

49. **Date application packet was filed with the local library:** Simultaneous with Application

50. **Name of Library:** Middlebury Public Library

51. **Name of Librarian (optional):** Reference Desk

52. **Mailing Address:** 101 E. Winslow St.

City: Middlebury	State: IN	ZIP Code: 46540 –
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53. **Internet Address (optional):**

54. **Electronic Mail Address (optional):**

55. **Telephone Number:** ( 574 ) 825 – 5601

56. **Facsimile Number (optional):** ( ) –

**PART I: Company Name History (if applicable)**

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

57. Legal Name of Company	58. Dates of Use
Middlebury Hardwood Products, Inc.	03/09/1995 to 12/31/2012
Patrick Industries, Inc. d/b/a Middlebury Hardwood Products	01/01/2013 to
	to
	to
	to
	to
	to
	to
	to
	to

59. **Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?  
 No  Yes – *Change Company Name to:*







<b>PART L: Source Process Description</b>			
Complete this section to summarize the main processes at the source.			
65. Process Description	66. Products	67. SIC Code	68. NAICS Code
Woodworking/Surface Coating	Wood Cabinets	2434	337110

<b>PART M: Existing Approvals (if applicable)</b>		
Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.		
69. Permit ID	70. Emissions Unit IDs	71. Expiration Date
46371	Woodworking and Surface Coating	6/8/2028

<b>PART N: Unpermitted Emissions Units (if applicable)</b>				
Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.				
72. Emissions Unit ID	73. Type of Emissions Unit	74. Actual Dates		
		Began Construction	Completed Construction	Began Operation
FL35	Woodworking Equipment	5/1/2024		
BC1	Abrasive Blasting Cabinet	5/1/2024		

<b>PART O: New or Modified Emissions Units (if applicable)</b>						
Complete this section only if the source is proposing to add new emission units or modify existing emission units.						
75. Emissions Unit ID	76. NEW	77. MOD	78. Type of Emissions Unit	79. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
FL35	X		Woodworking Equipment	5/1/2024		
BC1	X		Abrasive Blasting Cabinet	5/1/2024		



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-05: Emissions Unit Information**  
 State Form 51610 (R2 / 9-06)  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**



**IDEM - Office of Air Quality - Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
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 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

- NOTES:**
- The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.
  - Detailed instructions for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/gsd05instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/gsd05instructions.html).
  - All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**Emissions Unit Information**

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide the enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

1. Unit ID	2. Model No.	3. Serial No.	4. Description	5. Manufacturer	6. Installation Date	7. Maximum Capacity	8. Stack / Vent ID
FL35	NA	NA	One (1) Stanza Alpha Panel Brush	Stanza	05/01/2024	6100.00 lb/hr	None
BC1	NA	NA	One (1) Enclosed Abrasive Blasting Cabinet	NA	05/01/2024	49.00 lb/hr	None



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-06: Particulate Emissions Summary**  
 State Form 51612 (R2 / 9-06)  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**



**IDEM - Office of Air Quality - Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

**NOTES:**

- The purpose of this form is to provide basic information about each source of particulate emissions. This form is required for all air permit applications.
- Detailed instructions for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/gsd06instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/gsd06instructions.html).
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**Part A: Particulate Matter Emissions**

Part A provides a summary of the type and amount of particulate emissions at the source. The state rules on particulate emissions are found in Title 326 of the Indiana Administrative Code, Article 6, Particulate Rules. If you do not provide the enough information to adequately describe each source of particulate emissions, the application process may be stopped. If additional space is needed, you may make a copy of this table.

Emissions Point		Potential To Emit (tons per year)						
1. ID	2. Description	3. PM	4. PM-10	5. PM-2.5	6. TSP	7. Fugitive Dust	8. Fugitive PM	9. HAP PM
	Summary Attached							

**Part B: Control of Particulate Emissions**

Part C gathers information about how each source of particulate emissions is controlled. If you do not provide the enough information to adequately describe how each source of particulate emissions is controlled, the application process may be stopped. If additional space is needed, you may make a copy of this table.

10. Emissions Point ID	11. Control Measure	12. Control Measure Description	13. Control Plan
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____
	<input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____		<input type="checkbox"/> No <input type="checkbox"/> Yes Date Submitted: _____





**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-07: Criteria Pollutant Emissions Summary**  
 State Form 51602 (R2 / 9-06)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



IDEM - Office of Air Quality - Permits Branch  
 100 N. Senate Avenue, Indianapolis, IN 46204-2251  
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[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

- NOTES:**
- The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.
  - Detailed instructions for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/gsd07instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/gsd07instructions.html).
  - All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**Part A: Unit Emissions Summary**

Part A provides the actual and potential emissions of each criteria pollutant emitted from each emissions unit. If you do not provide the enough information to adequately describe the emissions from each emissions unit, the application process may be stopped.

1. Unit ID	2. Stack / Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
	Summary Attached					

**Part B: Pollutant Emissions Summary**

Part B provides the total actual and potential emissions of each criteria pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide the enough information to adequately describe the total source emissions, the application process may be stopped.

6. Criteria Pollutant	7. Actual Emissions		8. Potential To Emit	
	Standard Units	Tons Per Year	Standard Units	Tons Per Year
Carbon Monoxide (CO)				
Lead (Pb)				
Nitrogen Oxides (NO <sub>x</sub> )				
Particulate Matter (PM)				
Particulate Matter less than 10µm (PM <sub>10</sub> )				
Particulate Matter less than 2.5µm (PM <sub>2.5</sub> )				
Sulfur Dioxide (SO <sub>2</sub> )				
Volatile Organic Compounds (VOC)				
Other (specify):				

**Part C: Fugitive VOC Emissions (if applicable)**

Part C summarizes the sources of fugitive VOC emissions at the source and estimates VOC emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3.

9. Fugitive Emissions Source	10. Emission Factor (lb/hr)	11. Number Leaking	12. Uncontrolled Potential To Emit	
			Pounds Per Hour	Tons Per Year
Compressor Seals				
Flanges				
Open-Ended Lines				
Pressure Relief Seals				
Pump Seals				
Sampling Connections				
Valves				
Other (specify):				



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-08: Hazardous Air Pollutant Emissions Summary**  
State Form 51604 (R2 / 9-06)  
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



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- NOTES:**
- The purpose of this form is to provide the actual and potential emissions of each hazardous air pollutant emitted from the source. This form is required for all air permit applications.
  - Detailed instructions for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/gsd08instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/gsd08instructions.html).
  - All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Part A: Unit Emissions Summary							
Part A provides the actual and potential emissions of each hazardous air pollutant emitted from each emissions unit. If you do not provide the enough information to adequately describe the emissions from each emissions unit, the application process may be stopped.							
1. Unit ID	2. Stack / Vent ID	3. Hazardous Air Pollutant	4. CAS No.	5. Actual Emissions		6. Potential To Emit	
				Standard Units	Tons Per Year	Standard Units	Tons Per Year
		Summary Attached					



**Part B: Pollutant Emissions Summary**

Part B provides the total actual and potential emissions of each hazardous air pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide the enough information to adequately describe the total source emissions, the application process may be stopped.

7. Hazardous Air Pollutant	8. CAS No.	9. Actual Emissions		10. Potential To Emit	
		Standard Units	Tons Per Year	Standard Units	Tons Per Year

**Part C: Fugitive HAP Emissions (if applicable)**

Part C summarizes the sources of fugitive HAP emissions at the source and estimates HAP emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3.

11. Fugitive Emissions Source	12. Hazardous Air Pollutant	13. Emission Factor (lb/hr)	14. Number Leaking	15. Uncontrolled Potential To Emit	
				Pounds Per Hour	Tons Per Year
Compressor Seals					
Flanges					
Open-Ended Lines					
Pressure Relief Seals					
Pump Seals					
Sampling Connections					
Valves					
Other (specify):					

**TSD Appendix A: Emission Calculations  
Emission Summary**

**Company Name:** Patrick Industries, Inc dba Middlebury Hardwood Products  
**Source Address:** 101 Joan Drive, Elkhart IN 46540  
**Prepared By:** D&B Environmental Consulting, LLC

Unlimited Potential to Emit (PTE) (tons/year) After Integral Controls*									
Unit ID	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAP	Worst Single HAP (xylene)
Woodworking*	0.42	0.25	0.25	--	--	--	--	--	--
Automated Finishing (FL3, FL12, FL17, FL27)	13.98	13.98	13.98	--	--	178.61	--	14.03	1.34
Surface Coating Booths HB1-HB4	28.70	28.70	28.70	--	--	320.31	--	199.15	133.75
Surface Coating Booths UV1 and UV2	2.43	2.43	2.43	--	--	81.77	--	1.89	--
Wood-fired boiler (B1)	23.02	21.70	18.82	1.44	28.20	0.98	34.53	2.07	--
Natural gas-fired heaters	0.11	0.43	0.43	0.03	5.64	0.31	4.74	0.11	--
Miscellaneous Particulate Emissions (MPE)	0.79	0.79	0.79	--	--	--	--	--	--
Parts Washer Tank (MPW1)	--	--	--	--	--	0.44	--	--	--
Abrasive Blasting Cabinet (BC1)	2.15	1.50	1.50	--	--	--	--	--	--
Paved Roads (fugitive)	0.63	0.13	0.03	--	--	--	--	--	--
<b>Total</b>	<b>71.59</b>	<b>69.77</b>	<b>66.90</b>	<b>1.47</b>	<b>33.84</b>	<b>582.41</b>	<b>39.27</b>	<b>217.25</b>	<b>135.09</b>
Solvent Recycling Unit (SR1)***	--	--	--	--	--	0.11	--	0.01	0.01

Limited Potential to Emit (PTE) (tons/year) After Integral Controls*									
Unit ID	PM	PM10	PM2.5	SO2	NOx	VOC**	CO	Total HAP**	Worst Single HAP**(xylene)
Woodworking*	0.42	0.25	0.25	--	--	--	--	--	--
Automated Finishing (FL3, FL12, FL17, FL27)	13.98	13.98	13.98	--	--	--	--	--	--
Surface Coating Booths HB1-HB4	28.70	28.70	28.70	--	--	245.00	--	22.50	9.50
Surface Coating Booths UV1 and UV2	2.43	2.43	2.43	--	--	--	--	--	--
Wood-fired boiler (B1)	23.02	21.70	18.82	1.44	28.20	0.98	34.53	2.07	--
Natural gas-fired heaters	0.11	0.43	0.43	0.03	5.64	0.31	4.74	0.11	--
Miscellaneous Particulate Emissions (MPE)	0.79	0.79	0.79	--	--	--	--	--	--
Parts Washer Tank (MPW1)	--	--	--	--	--	0.44	--	--	--
Abrasive Blasting Cabinet (BC1)	2.15	1.50	1.50	--	--	--	--	--	--
Paved Roads (fugitive)	0.63	0.13	0.03	--	--	--	--	--	--
<b>Total</b>	<b>71.59</b>	<b>69.77</b>	<b>66.90</b>	<b>1.47</b>	<b>33.84</b>	<b>246.73</b>	<b>39.27</b>	<b>24.68</b>	<b>9.50</b>
Solvent Recycling Unit (SR1)***	--	--	--	--	--	0.11	--	0.01	0.01

\*In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettsen 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 from the woodworking operations were calculated after consideration of the controls for purposes of determining operating permit level applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

\*\* In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the input of VOC for the Units FL3, FL12, FL17, FL27, HB1 through HB4, UV1, and UV2 shall not exceed 248 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

\*\*In order to render the source an area source of HAP, the input of Single HAP, for the Units FL3, FL12, FL17, FL27, HB1 through HB4, UV1, and UV2 shall not exceed 9.5 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and the input of combined HAPs, shall not exceed 22.5 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. See section D, Emission Limitations and Standards [326 IAC 2-8-4(1)] of the permit.

\*\*\*The solvent recycling unit SR1 recycles solvent used in cleaning for the surface coating operations. The potential to emit (PTE) for this operation is already accounted as emissions for the surface coating operations and therefore is not included in the total as it would double-count the potential emissions. The Source is requesting that this equipment be added to the permit for the purposes of satisfying the Compliance and Enforcement Branch.

**TSD Appendix A: Emission Calculations  
Modification Summary**

**Company Name:** Patrick Industries, Inc dba Middlebury Hardwood Products  
**Source Address:** 101 Joan Drive, Elkhart IN 46540  
**Prepared By:** D&B Environmental Consulting, LLC

Unit ID	Unlimited Potential to Emit (PTE) (tons/year) After Integral Controls*								
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAP	Worst Single HAP (xylene)
Woodworking* Stanza Alpha Panel Brush	0.05	0.03	0.03	-	-	-	-	-	-
Abrasive Blasting Cabinet (BC1)	2.15	1.50	1.50	-	-	-	-	-	-
<b>Total</b>	<b>2.19</b>	<b>1.53</b>	<b>1.53</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

\*In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, potential emissions for particulate matter from the woodworking operations were calculated after consideration of the controls for purposes of determining operating permit level applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

TSD Appendix A: Emission Calculations  
Particulate Emissions - Woodworking and Sanding Operations

Company Name: Patrick Industries, Inc dba Middlebury Hardwood Products  
Source Address: 101 Joan Drive, Elkhart IN 46540  
Prepared By: D&B Environmental Consulting, LLC

Unit ID	Maximum Throughput (tons/hr)	Maximum Throughput (lbs/hr)	Density of Wood (lbs/ft <sup>3</sup> )	Maximum Throughput (ft <sup>3</sup> /hr)	Maximum Throughput (BDFt/hr)	Uncontrolled Emission Factor (lb/ton)		Uncontrolled Potential Emissions (lbs/hr)		Uncontrolled Potential Emissions (tons/yr)		Control Device	Control Efficiency (%)	Controlled Potential Emissions (lbs/hr)**		Controlled Potential Emissions (tons/yr)**	
						PM	PM10/PM2.5*	PM	PM10/PM2.5*	PM	PM10/PM2.5*			PM	PM10/PM2.5*		
<b>WW1a (Mill Room A)</b>	<b>2.01</b>	<b>4030</b>	<b>54.9</b>	<b>73.40</b>	<b>880.80</b>	<b>0.35</b>	<b>0.200</b>	<b>0.71</b>	<b>0.55</b>	<b>3.09</b>	<b>2.42</b>	Cyclone/Baghouse RF276	99.0%	7.1E-03	5.5E-03	3.1E-02	2.4E-02
- One (1) DMC Sander	0.13	253.8	54.9	4.62	55.46	0.35	0.200	0.04	0.03	0.19	0.11	Cyclone/Baghouse RF276	99.0%	4.4E-04	2.5E-04	1.9E-03	1.1E-03
- Two (2) Sliding Table Saws	0.16	311.6	54.9	5.68	68.11	0.35	0.200	0.05	0.03	0.24	0.14	Cyclone/Baghouse RF276	99.0%	5.5E-04	3.1E-04	2.4E-03	1.4E-03
- One (1) Komo CNC Router	0.08	155.8	54.9	2.84	34.05	0.35	0.200	0.03	0.02	0.12	0.07	Cyclone/Baghouse RF276	99.0%	2.7E-04	1.6E-04	1.2E-03	6.8E-04
- One (1) Powermatic Drill Press	0.08	155.8	54.9	2.84	34.05	0.35	0.200	0.03	0.02	0.12	0.07	Cyclone/Baghouse RF276	99.0%	2.7E-04	1.6E-04	1.2E-03	6.8E-04
- One (1) DeWalt Compound Miter Saw	0.08	155.8	54.9	2.84	34.05	0.35	0.200	0.03	0.02	0.12	0.07	Cyclone/Baghouse RF276	99.0%	2.7E-04	1.6E-04	1.2E-03	6.8E-04
- One (1) Single End Shaper	0.13	253.8	54.9	4.62	55.46	0.35	0.200	0.04	0.03	0.19	0.11	Cyclone/Baghouse RF276	99.0%	4.4E-04	2.5E-04	1.9E-03	1.1E-03
- One (1) Wood Grinder	1.00	2000.0	54.9	36.43	437.13	0.35	0.350	0.35	0.35	1.53	1.53	Cyclone/Baghouse RF276	99.0%	3.5E-03	3.5E-03	1.5E-02	1.5E-02
- Three (3) Table Routers	0.37	743.4	54.9	13.54	162.48	0.35	0.200	0.13	0.07	0.57	0.33	Cyclone/Baghouse RF276	99.0%	1.3E-03	7.4E-04	5.7E-03	3.3E-03
<b>WW1b (Rough Mill Room A)</b>	<b>3.10</b>	<b>6207</b>	<b>54.9</b>	<b>113.05</b>	<b>1356.61</b>	<b>0.35</b>	<b>0.200</b>	<b>1.09</b>	<b>0.62</b>	<b>4.76</b>	<b>2.72</b>	Cyclone/Baghouse RF484(1)	99.0%	1.1E-02	6.2E-03	4.8E-02	2.7E-02
- Two (2) Shapers	0.25	495.6	54.9	9.03	108.33	0.35	0.200	0.09	0.05	0.38	0.22	Cyclone/Baghouse RF484(1)	99.0%	8.7E-04	5.0E-04	3.8E-03	2.2E-03
- Four (4) Automatic Coping Machines	0.93	1858.6	54.9	33.85	406.22	0.35	0.200	0.33	0.19	1.42	0.81	Cyclone/Baghouse RF484(1)	99.0%	3.3E-03	1.9E-03	1.4E-02	8.1E-03
- One (1) Hand Coping Machines	0.19	371.7	54.9	6.77	81.24	0.35	0.200	0.07	0.04	0.28	0.16	Cyclone/Baghouse RF484(1)	99.0%	6.5E-04	3.7E-04	2.6E-03	1.6E-03
- Four (4) Optimizing Chop Saws	0.28	557.5	54.9	10.15	121.85	0.35	0.200	0.10	0.06	0.43	0.24	Cyclone/Baghouse RF484(1)	99.0%	9.8E-04	5.6E-04	4.3E-03	2.4E-03
- Two (2) Manual Chop Saws	0.28	557.5	54.9	10.15	121.85	0.35	0.200	0.10	0.06	0.43	0.24	Cyclone/Baghouse RF484(1)	99.0%	9.8E-04	5.6E-04	4.3E-03	2.4E-03
- One (1) Gang Rip Saw	0.12	247.8	54.9	4.51	54.16	0.35	0.200	0.04	0.02	0.19	0.11	Cyclone/Baghouse RF484(1)	99.0%	4.3E-04	2.5E-04	1.9E-03	1.1E-03
- Two (2) Re-rip Saws	0.25	495.6	54.9	9.03	108.33	0.35	0.200	0.09	0.05	0.38	0.22	Cyclone/Baghouse RF484(1)	99.0%	8.7E-04	5.0E-04	3.8E-03	2.2E-03
- One (1) Sliding Table Saw	0.28	557.5	54.9	10.15	121.85	0.35	0.200	0.10	0.06	0.43	0.24	Cyclone/Baghouse RF484(1)	99.0%	9.8E-04	5.6E-04	4.3E-03	2.4E-03
- One (1) Scheduling Panel Saw	0.28	557.5	54.9	10.15	121.85	0.35	0.200	0.10	0.06	0.43	0.24	Cyclone/Baghouse RF484(1)	99.0%	9.8E-04	5.6E-04	4.3E-03	2.4E-03
- One (1) Planer/Sander	0.25	507.5	54.9	8.24	116.92	0.35	0.200	0.09	0.05	0.39	0.22	Cyclone/Baghouse RF484(1)	99.0%	8.9E-04	5.1E-04	3.9E-03	2.2E-03
<b>WW1c (Mill Room B)</b>	<b>2.80</b>	<b>5598</b>	<b>54.9</b>	<b>101.96</b>	<b>1223.58</b>	<b>0.35</b>	<b>0.200</b>	<b>0.98</b>	<b>0.56</b>	<b>4.29</b>	<b>2.45</b>	Cyclone/Baghouse RF484(2)	99.0%	9.8E-03	5.6E-03	4.3E-02	2.5E-02
- Two (2) Single End Shaper/Sanders	0.30	598.0	54.9	10.89	130.70	0.35	0.200	0.10	0.06	0.46	0.26	Cyclone/Baghouse RF484(2)	99.0%	1.0E-03	6.0E-04	4.6E-03	2.6E-03
- One (1) Hinge Drill	0.05	99.7	54.9	1.82	21.79	0.35	0.200	0.02	0.01	0.08	0.04	Cyclone/Baghouse RF484(2)	99.0%	1.8E-04	1.0E-04	7.7E-04	4.4E-04
- Five (5) Double End Shaper/Sander	0.72	1435.6	54.9	26.15	313.77	0.35	0.200	0.25	0.14	1.10	0.63	Cyclone/Baghouse RF484(2)	99.0%	2.5E-03	1.4E-03	1.1E-02	6.3E-03
- One (1) DMC Bottom Sander	0.20	398.8	54.9	7.26	87.15	0.35	0.200	0.07	0.04	0.31	0.17	Cyclone/Baghouse RF484(2)	99.0%	1.0E-04	4.0E-04	3.1E-03	1.7E-03
- Two (2) Top Sanders	0.38	757.6	54.9	13.80	165.59	0.35	0.200	0.13	0.08	0.58	0.33	Cyclone/Baghouse RF484(2)	99.0%	1.3E-03	7.6E-04	5.6E-03	3.3E-03
- One (1) Latch Router	0.10	199.4	54.9	3.63	43.58	0.35	0.200	0.03	0.02	0.15	0.09	Cyclone/Baghouse RF484(2)	99.0%	3.5E-04	2.0E-04	1.5E-03	8.7E-04
- One (1) Belt Sander	0.05	99.7	54.9	1.82	21.79	0.35	0.200	0.02	0.01	0.08	0.04	Cyclone/Baghouse RF484(2)	99.0%	1.7E-04	1.0E-04	7.6E-04	4.4E-04
- One (1) Castle Machine	0.05	123.9	54.9	2.26	27.08	0.35	0.200	0.02	0.01	0.09	0.05	Cyclone/Baghouse RF484(2)	99.0%	2.2E-04	1.2E-04	9.5E-04	5.4E-04
- One (1) Rockwell Panel Shaper	0.47	942.8	54.9	17.17	206.06	0.35	0.200	0.16	0.09	0.72	0.41	Cyclone/Baghouse RF484(2)	99.0%	1.6E-03	9.4E-04	7.2E-03	4.1E-03
- One (1) Unique Cathedral Shaper	0.47	942.8	54.9	17.17	206.06	0.35	0.200	0.16	0.09	0.72	0.41	Cyclone/Baghouse RF484(2)	99.0%	1.6E-03	9.4E-04	7.2E-03	4.1E-03
<b>WW1d (Flat line)</b>	<b>3.05</b>	<b>6100</b>	<b>54.9</b>	<b>111.10</b>	<b>1333.26</b>	<b>0.35</b>	<b>0.200</b>	<b>1.07</b>	<b>0.61</b>	<b>4.68</b>	<b>2.67</b>	Cyclone/Baghouse DFT4-80	99.0%	1.1E-02	6.1E-03	4.7E-02	2.7E-02
- Two (2) Sanding Stations (FL10, FL24)	9.15	18300	54.9	333.31	3999.77	0.35	0.200	3.20	1.83	14.03	8.02	Cyclone/Baghouse DFT4-80	99.0%	3.2E-02	1.8E-02	1.4E-01	8.0E-02
- Six (6) Panel Brush Machines (FL2, FL8, FL11, FL13, FL16, FL26)	3.05	6100	54.9	111.10	1333.26	0.35	0.200	1.07	0.61	4.68	2.67	Cyclone/Baghouse DFT4-80	99.0%	1.1E-02	6.1E-03	4.7E-02	2.7E-02
<b>WW1e (Rough Mill Room B)</b>	<b>0.61</b>	<b>1220</b>	<b>54.9</b>	<b>22.22</b>	<b>266.65</b>	<b>0.35</b>	<b>0.200</b>	<b>0.21</b>	<b>0.12</b>	<b>0.94</b>	<b>0.53</b>	No control device					
- Three (3) Molding Machines	0.37	743.4	54.9	13.54	162.48	0.35	0.200	0.13	0.07	0.57	0.33	Cyclone/Baghouse RF415	99.0%	1.3E-03	7.4E-04	5.7E-03	3.3E-03
- One (1) Mire Machine	0.09	185.8	54.9	3.38	40.61	0.35	0.200	0.03	0.02	0.14	0.08	Cyclone/Baghouse RF415	99.0%	3.3E-04	1.9E-04	1.4E-03	8.1E-04
- Two (2) UV Sanders	0.50	991.2	54.9	18.05	216.64	0.35	0.200	0.17	0.10	0.76	0.43	Cyclone/Baghouse RF415	99.0%	1.7E-03	9.9E-04	7.6E-03	4.3E-03
- One (1) Panel Saw	0.09	185.8	54.9	3.38	40.61	0.35	0.200	0.03	0.02	0.14	0.08	Cyclone/Baghouse RF415	99.0%	3.3E-04	1.9E-04	1.4E-03	8.1E-04
- One (1) Panel Brush	0.09	185.8	54.9	3.38	40.61	0.35	0.200	0.03	0.02	0.14	0.08	Cyclone/Baghouse RF415	99.0%	3.3E-04	1.9E-04	1.4E-03	8.1E-04
- One (1) Finish Sander	0.09	185.8	54.9	3.38	40.61	0.35	0.200	0.03	0.02	0.14	0.08	Cyclone/Baghouse RF415	99.0%	3.3E-04	1.9E-04	1.4E-03	8.1E-04
<b>One (1) Stanza Alpha Panel Brush Machine (FL35)</b>	<b>3.05</b>	<b>6100</b>	<b>54.9</b>	<b>111.10</b>	<b>1333.26</b>	<b>0.35</b>	<b>0.200</b>	<b>1.07</b>	<b>0.61</b>	<b>4.68</b>	<b>2.67</b>	Baghouse NFP-S1000	99.0%	1.1E-02	6.1E-03	4.7E-02	2.7E-02
<b>Total</b>										<b>43.03</b>	<b>25.24</b>					<b>0.42</b>	<b>0.25</b>

\*PM2.5 emissions assumed equal to PM10 emissions

Methodology

Maximum Throughput (lbs/hr) provided by the source.

Density of Wood: Assume worst case wood - white oak with a specific gravity of 0.88 (Wood Handbook, Wood as an Engineering Material, USDA Forest Service) x density of water (62.39 lbs/ft<sup>3</sup>)

Maximum Throughput (ft<sup>3</sup>/hr) = [Maximum Throughput (lbs/hr)] / [Density of Wood (lbs/ft<sup>3</sup>)]

Maximum Throughput (BDFt/hr) = [Maximum Throughput (ft<sup>3</sup>/hr)] \* [(12 BDFt / ft<sup>3</sup>)]

1 board foot (BDFt) = 1/12 cubic foot

Emission Factors are from Fire Version 5.0 Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants EPA-454/R-95-012, August 1995, for Sawmill Operations for SCC 3-07-008-02 (Log Sawing)

Uncontrolled Potential Emissions (lbs/hr) = [Maximum Throughput (lbs/hr)] \* [ton/2,000 lbs] \* [Uncontrolled Emission Factor (lbs/ton)]

Uncontrolled Potential Emissions (tons/yr) = [Uncontrolled Potential Emissions (lbs/hr)] \* [8,760 hrs/yr] \* [ton/2,000 lbs]

Controlled Potential Emissions (lbs/hr) = [Uncontrolled Potential Emissions (lbs/hr)] \* [1 - Control Efficiency]

Controlled Potential Emissions (tons/yr) = [Controlled Potential Emissions (lbs/hr)] \* [8760 hrs/yr] \* [ton/2,000 lbs]

Control Efficiency provided by the source.

\*\*Notes:

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 from the woodworking operations were calculated after consideration of the controls for purposes of determining operating permit level applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

As part of Significant Source Modification 039-12718-00245, issued May 9, 2001, IDEM, OAQ evaluated the justifications and agreed that the cyclone/baghouse system controlling particulate emissions from the automated finishing line sanding stations (5, 8, 18, and 19) were considered as an integral part of the automated finishing line process.

**Appendix A: Emissions Calculations  
Abrasive Blasting - Confined**

Company Name: Patrick Industries, Inc dba Middlebury Hardwood Products  
Source Address: 101 Joan Drive, Elkhart IN 46540  
Prepared By: D&B Environmental Consulting, LLC

**Table 1 - Emission Factors for Abrasives**

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	0.70

**Table 2 - Density of Abrasives (lb/ft3)**

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Steel	467
Walnut	53

**Table 3 - Flow Rate (FR1) Through Nozzle (lb/hr)**

Flow rate (FR1) of sand through a blasting nozzle as a function of nozzle pressure and internal diameter (ID1)

Nozzle Type (diameter)	Internal diameter, in	Nozzle Pressure (psig)								
		30	40	50	60	70	80	90	100	
No. 2 (1/8 inch)	0.125	28	35	42	49	55	63	70	77	
No. 3 (3/16 inch)	0.1875	65	80	94	107	122	135	149	165	
No. 4 (1/4 inch)	0.25	109	138	168	195	221	255	280	309	
No. 5 (5/16 inch)	0.3125	205	247	292	354	377	420	462	507	
No. 6 (3/8 inch)	0.375	285	355	417	477	540	600	657	720	
No. 7 (7/16 inch)	0.4375	385	472	560	645	755	820	905	940	
No. 8 (1/2 inch)	0.5	503	615	728	835	945	1050	1160	1265	
No. 10 (5/8 inch)	0.625	820	990	1170	1338	1510	1680	1850	2030	
No. 12 (3/4 inch)	0.75	1140	1420	1670	1915	2160	2400	2630	2880	

**CALCULATIONS**

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters  
Flow Rate (FR) = Abrasive flow rate (lb/hr) of abrasive at nozzle pressure and internal nozzle diameter (ID)

D1 = Density of sand from Table 2 =  lb/ft3  
ID1 = Internal diameter of nozzle for sand blasting from Table 3 =  inch  
FR1 = Sand flow rate at nozzle pressure and internal diameter (ID1) from Table 3 =  lb/hr

D = Density of actual abrasive =  lb/ft3  
ID = internal diameter of actual nozzle =  inch  
FR = Flow rate of actual abrasive (lb/hr) =  lb/hr (per nozzle)

**Potential to Emit Before Control**

FR = Flow rate of actual abrasive (lb/hr) =  lb/hr (per nozzle)  
w = fraction of time of wet blasting =  %  
N = number of nozzles =   
EF = PM emission factor for actual abrasive from Table 1 =  lb PM/ lb abrasive  
PM10 emission factor ratio for actual abrasive from Table 1 =  lb PM10 / lb PM

	PM	PM10	PM2.5	
Potential to Emit (before control) =	0.490	0.343	0.343	lb/hr
=	11.76	8.23	8.23	lb/day
=	2.15	1.50	1.50	ton/yr

**Potential to Emit After Control**

	PM	PM10	PM2.5	
Emission Control Device Efficiency =	0.0%	0.0%	0.0%	
Potential to Emit (after control) =	4.9E-01	3.4E-01	3.4E-01	lb/hr
=	11.76	8.23	8.23	lb/day
=	2.146	1.502	1.502	ton/yr

**METHODOLOGY**

PM2.5 emissions assumed equal to PM10 emissions.  
Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)  
Flow rate of actual abrasive (FR) (lb/hr) = FR1 x (ID/ID1)<sup>2</sup> x (D/D1)  
Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))  
Potential to Emit (after control) = [Potential to Emit (before control)] \* [1 - control efficiency]  
Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-09: Summary of Additional Information**  
 State Form 51611 (R2 / 9-06)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM - Office of Air Quality - Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

**NOTES:**

- The purpose of this form is to supply a format for providing additional information about a process or emissions unit. This form is optional.
- Detailed instructions for this form are available at [www.in.gov/idem/permits/air/apps/instructions/qsd09instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/qsd09instructions.html).
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

<b>Summary of Additional Information</b>	
This table is intended to summarize any additional information about a process or emissions unit that you are submitting with your air permit application.	
<b>1. Process:</b> Woodworking and Miscellaneous	<b>2. Unit ID:</b> WW1c, FL23, BC1
<b>3. Application Form Reference:</b>	
<b>4. Explanation:</b> Provide a brief explanation of why you are supplementing the application with additional information. This information will help us continue to improve our air permit application forms. This information is being provided to describe the changes requested.	
<b>5. Summary of Additional Information:</b> Provide a brief summary of the additional information you are providing with your air permit application. <ol style="list-style-type: none"> <li>1. In Section A.3(d)(3), remove one (1) double edge shaper and sander.</li> <li>2. In Section A.3(d)(5), add one (1) top sander.</li> <li>3. Add one (1) Stanza Alpha Panel Brush equipped with its own baghouse dust collector venting indoors.</li> <li>4. Add one (1) enclosed abrasive basting cabinet.</li> </ol>	
<b>6. Additional Calculations / Diagrams:</b> Use the space provided to include additional calculations and/or diagrams, if applicable. Revision to the potential emission calculations is attached.	

Patrick Industries, Inc. dba Middlebury Hardwood Products  
Summary of Existing and New Emission Unit and Stack IDs

Equipment Description	Notes in Addition to ID Changes	Permit Section	New Emission Unit and Stack IDs	
			Emission Unit ID	Stack ID
Four (4) surface coating booths for wood furniture coating	None	A.2(a)	HB1	HB1S
			HB2	HB2S
			HB3	HB3S
			HB4	HB4S
Two (2) automated CEFLA profile surface coating booths	None	A.2(b)	UV1	UV1S
			UV2	UV2S
CEFLA - Two (2) electric curing ovens	None	A.2(b)	UV3	UV3S
			UV4	UV4S
<b>Automated Finishing Coating Machine Consisting Of:</b>			<b>A.2(c)</b>	
One (1) spray machine	None	A.2(c)(1)	FL3	FL3S
Two (2) spray machines	None	A.2(c)(2)	FL17	FL17S
			FL27	FL27S
One (1) rotary spray machine for stain application	None	A.2(c)(3)	FL12	FL12S
One (1) brush wiping machine	None	A.2(c)(4)	FL13	Dust Collector DFT4-80
One (1) manual wiping station	None	A.2(c)(5)	FL14	No Stack
<b>Sixteen (16) Curing Ovens</b>				
Two (2) tinted sealer ovens - Revise to three (3) tinted sealer ovens	None	A.2(c)(6)(A)	FL4	FL4S
			FL5	FL5S
			FL6	FL6S
One (1) drying oven for stain	None	A.2(c)(6)(B)	FL15	FL15S
Two (2) sealer coat ovens for flash off and curing/cooling	None	A.2(c)(6)(C)	FL19	FL19S
			FL20	FL20S
Two (2) sealer coat ovens for flash off and curing/cooling	None	A.2(c)(6)(D)	FL21	FL21S
			FL22	FL22S
Three (3) top coat ovens for flash off and curing/cooling	None	A.2(c)(6)(E)	FL29	FL29S
			FL30	FL30S
			FL31	FL31S
Two (2) top coat ovens for flash off and curing/cooling	None	A.2(c)(6)(F)	FL32	FL32S
			FL33	FL33S
			FL7	FL7SA, FL7SB
Three (3) top coat electric ovens for flash off and curing/cooling	None	A.2(c)(7)	FL23	FL23SA, FL23SB, FL23SC
			FL34	FL34SA, FL34SB, FL34SC
One (1) wood-fired boiler, identified as EU8	None	A.2(d)	B1	B1S
Paved and unpaved roads	None	A.3(a)	None	None
One (1) woodworking operation	None	A.3(b)	WW1a (Mill Room A)	Cyclone/Baghouse RF276 - P1
	None		GR1	Cyclone/Baghouse RF276 - P1
One (1) woodworking operation	None	A.3(c)	WW1b (Rough Mill Room A)	Cyclone/Baghouse RF484(1) - P2
One (1) woodworking operation	Replace one (1) double end shaper with one (1) top sander	A.3(d)	WW1c (Mill Room B)	Cyclone/Baghouse RF484(2) - P3
One (1) woodworking operation	None	A.3(e)	WW1d (Flat Line)	Cyclone/Baghouse DFT4-80 - P4
Three (3) sanding stations	None	A.3(f)(1)	FL10	Vented to Cyclone/Baghouse DFT4-80
	None		FL24	
One (1) hand sanding station	None	A.3(f)(2)	FL23	Not Vented
Four (4) automated panel brushes - Revise to six (6) automated panel brushes	None	A.3(f)(3)	FL2, FL8, FL11, FL13, FL16, FL26	Cyclone/Baghouse DFT4-80 - P4
One (1) woodworking operation	None	A.3(g)	WW1e (Rough Mill Room B)	Cyclone/Baghouse RF415
Thirteen (13) indirect-fired, radiant heaters	None	A.3(h)(1)	H1 to H13	H1S to H13S
Twelve (12) indirect-fired, radiant heaters	None	A.3(h)(2)	H14 to H25	H14S to H25S
Four (4) indirect-fired radiant heaters	None	A.3(h)(3)	H26 to H29	H26S to H29S
Two (2) indirect-fired downflow furnaces	None	A.3(h)(4)	H30 and H31	H30S and H31S
Two (2) indirect-fired thermocycler units	None	A.3(h)(5)	TC1 and TC2	TC1S and TC2S
One (1) indirect-fired, air makeup unit	None	A.3(h)(6)	AM1	AM1S
Four (4) chop saws venting indoors	None	A.3(i)	CS1 through CS4	None
One (1) acetone solvent recycling unit	None	A.3(j)	SR1	None
One (1) parts washer tank used for maintenance activities	None	A.3(k)	MPW1	None
One (1) Stanza Alpha Panel Brush	Add to Permit	A.3(l)	FL35	Baghouse VFP-S1000 Venting Indoors (FL35DC)
One (1) abrasive blasting cabinet	Add to Permit	A.3(m)	BC1	None



**OAQ PROCESS INFORMATION APPLICATION**  
**PI-20: Woodworking & Plastic Machining**  
 State Form 52561 (R / 5-06)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

**NOTES:**

- The purpose of this form is to obtain detailed information about the woodworking or plastic machining process. Complete one form for each process unit (or group of identical process units). This is required form.
- Detailed **instructions** for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/pi20instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/pi20instructions.html).
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

**PART A: Process Information**

Part A identifies the woodworking or plastic machining process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. Unit ID: FL35		2. Installation Date: 5/1/2024 <i>(actual or anticipated)</i>	
3. How many ( <i>identical</i> ) process units are identified in this form?		<input checked="" type="checkbox"/> One <input type="checkbox"/> More than one ( <i>specify number</i> ): _____	
4. Type of Process:		<input type="checkbox"/> Plastic Machining <input checked="" type="checkbox"/> Woodworking <input type="checkbox"/> Other ( <i>specify</i> ): _____	
5. Machining Equipment:		<input type="checkbox"/> 10 inch Table Saw Sander <input type="checkbox"/> SHP Planar <input checked="" type="checkbox"/> Other ( <i>specify</i> ): Panel Brush	
6. Capacity Rating ( <i>specify units</i> ):		6100.00 lb/hr	
7. Grain Loading from the Pneumatic Conveyor Outlet ( <i>gr/dscf</i> ):		0.00	
8. Maximum Airflow ( <i>acfm</i> ):		5000.00	
9. Normal Airflow ( <i>acfm</i> ):		4500.00	
10. Maximum Production Rate ( <i>specify units</i> ):		6100.00 lb/hr	
11. Control Technology: <i>Identify all control technologies used for this process, and attach completed CE-01 form (unless "none").</i>			
<input type="checkbox"/> None <input checked="" type="checkbox"/> Baghouse / Fabric Filter – <i>Attach CE-02.</i> <input type="checkbox"/> Electrostatic Precipitator – <i>Attach CE-04.</i> <input type="checkbox"/> Wet Scrubber / Absorption – <i>Attach CE-05.</i> <input type="checkbox"/> Other ( <i>specify</i> ): _____			
<input type="checkbox"/> Cyclone – <i>Attach CE-03.</i> <input type="checkbox"/> Electrostatic Gravel Bed Filter – <i>Attach CE-04</i> <input type="checkbox"/> Mechanical Collector – <i>Attach CE-10</i> <input type="checkbox"/> – <i>Attach CE-10.</i>			
12. Control Techniques: <i>Identify all control techniques used for this process.</i>			
Baghouse venting indoors			
13. Process Limitations / Additional Information: <i>Identify any acceptable process limitations. Attach additional information if necessary.</i>			
None			



PART B: Emission Factors				
Part B identifies all emission factors used to calculate air emissions from this process.				
14. Process Unit (& ID, if applicable)	15. Air Pollutant	16. Emission Factor		17. Source of Emission Factor (if not using AP-42, include calculations)
		value	units	
FL35	PM	0.35	lb/ton	<input checked="" type="checkbox"/> AP-42 <input type="checkbox"/> Other
	PM10/PM2.5	0.20	lb/ton	<input checked="" type="checkbox"/> AP-42 <input type="checkbox"/> Other
				<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
				<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
				<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
				<input type="checkbox"/> AP-42 <input type="checkbox"/> Other

PART C: Processed Materials		
Part C identifies the materials machined, the raw materials usage, and the rate of dust production.		
18. Materials Machined	19. Raw Materials Usage Rate (lb/hr)	20. Dust Production (lb/hr)
Wood Panels	6100.00	1.07

PART D: Federal Rule Applicability	
Part D identifies any federal rules that apply to the process.	
21. Is a <b>New Source Performance Standard (NSPS)</b> applicable to this source? <i>Attach a completed FED-01 for each rule that applies.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
40 CFR Part 60, Subpart _____ (Specify):	
22. Is a <b>National Emission Standard for Hazardous Air Pollutants (NESHAP)</b> applicable to this source? <i>If yes, attach a completed FED-01 if this rule is applicable.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
40 CFR Part 61, Subpart _____ (Specify):	
40 CFR Part 63, Subpart _____ (Specify):	
23. <b>Non-Applicability Determination:</b> Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.	



**OAQ CONTROL EQUIPMENT APPLICATION**  
**CE-02: Particulate Control – Baghouse / Fabric Filter**  
 State Form 51953 (R/3-06)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM - Office of Air Quality - Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem/permits/air/index.html](http://www.IN.gov/idem/permits/air/index.html)

NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- Detailed **instructions** for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/ce02instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/ce02instructions.html).
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

**PART A: Identification and Description of Control Equipment**

Part A identifies the particulate control device and describes its physical properties.

1. Control Equipment ID:	FL35DC
2. Installation Date:	05/01/2024
3. Bags or Cartridges?	<input checked="" type="checkbox"/> Bags <input type="checkbox"/> Cartridges
4. Filter Material:	Cotton
5. Number of Bags/Cartridges per Compartment:	24
6. Number of Compartments:	1
7. Mode of Operation:	<input type="checkbox"/> Intermittent <input type="checkbox"/> Periodic <input checked="" type="checkbox"/> Continuous
8. Cleaning Method:	<input type="checkbox"/> Shaking <input type="checkbox"/> Reverse Pulse <input type="checkbox"/> Reverse Air <input checked="" type="checkbox"/> Jet Pulse
9. Cleaning Cycle / Frequency (specify units):	180 Sec
10. Is a bag leak detector installed on this device?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. Type / Description of Bag Leak Detector:	<input type="checkbox"/> Positive Pressure <input type="checkbox"/> Negative Pressure
12. Air to Cloth Ratio (Ex: 1.3 : 1.0):	20.6 : 1
13. Is Lime Injection used on this device?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14. Is Carbon Injection used on this device?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**PART B: Operational Parameters**

Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used. For each applicable parameter, provide the inlet and outlet values or provide the differential value.

	A. Units	B. Inlet	C. Outlet	D. Differential
15. Gas Stream Flow Rate	ACFM	5000	4500	500
16. Gas Stream Temperature	°F			
17. Gas Stream Pressure	inches of water			to
18. Moisture Content	%			
19. Particle Size Range	micrometers			to
20. Lime Injection Rate (if applicable)	lb/hr			
21. Carbon Injection Rate (if applicable)	lb/hr			
22. Other (specify):				

PART C: Pollutant Concentrations					
Part C provides the pollutant concentrations of the pollutant laden gas stream.					
	23. Units	24. Inlet	25. Outlet	26. Efficiency (%):	
				Capture	Control
<input type="checkbox"/> a. Lead (Pb)					
<input type="checkbox"/> b. Hazardous Air Pollutant (HAP) (specify):					
<input checked="" type="checkbox"/> c. Particulate Matter (PM)	TPY	4.68	0.05	100	99
<input checked="" type="checkbox"/> d. Particulate Matter less than 10µm (PM <sub>10</sub> )	TPY	2.67	0.03	100	99
<input checked="" type="checkbox"/> e. Particulate Matter less than 2.5µm (PM <sub>2.5</sub> )	TPY	2.67	0.03	100	99
<input type="checkbox"/> f. Other Pollutant (specify):					

PART D: Monitoring, Record Keeping, & Testing Procedures				
Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.				
27. Item(s) Monitored:	Filter Condition			
28. Monitoring Frequency:	Quarterly			
29. Item(s) Recorded:	Filter Condition			
30. Record Keeping Frequency:	Quarterly			
31. Pollutant(s) Tested:	None			
32. Test Method(s):	NA			
33. Testing Frequency:	NA			

PART E: Preventive Maintenance Plan	
Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.	
34. Do you have a Preventive Maintenance Plan (PMP)?	
<input type="checkbox"/> No PMP is needed. <input checked="" type="checkbox"/> Yes – the following items are identified on the PMP:	
<input checked="" type="checkbox"/> A.	Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices.
<input checked="" type="checkbox"/> B.	Description of the items or conditions that will be inspected.
<input checked="" type="checkbox"/> C.	Schedule for inspection of items or conditions described above.
<input checked="" type="checkbox"/> D.	Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

PART F: Determination of Integral Control	
Part F provides explanation to determine whether the control device should be considered integral to the process.	
35. Has IDEM already made an integral control determination for this device? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", provide the following:	
Permit Number:	Issuance Date: Determination: <input type="checkbox"/> Integral <input type="checkbox"/> Not Integral
36. Is this device integral to the process? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If "Yes", provide the reason(s) why the device is integral.	

\*In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, potential emissions for particulate matter from the woodworking operations were calculated after consideration of the controls for purposes of determining operating permit level applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).



**OAQ PROCESS INFORMATION APPLICATION**  
**PI-17: Blasting Operations**  
 State Form 52558 (R / 10-06)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.in.gov/idem/permits/air/index.html](http://www.in.gov/idem/permits/air/index.html)

**NOTES:**

- The purpose of this form is to obtain detailed information about the blasting process. Complete one form for each unit (or group of identical units). This is a required form.
- Detailed **instructions** for this form are available online at [www.in.gov/idem/permits/air/apps/instructions/pi17instructions.html](http://www.in.gov/idem/permits/air/apps/instructions/pi17instructions.html).
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Blasting Process Information	
Part A identifies the blasting process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.	
1. Unit ID: BC1	2. Installation Date: 5/1/2024 <i>(actual or anticipated)</i>
3. How many <i>(identical)</i> process units are identified in this form? <input checked="" type="checkbox"/> One <input type="checkbox"/> More than one <i>(specify number)</i> : _____	
4. Type of Unit <i>(Check all that apply)</i> : <input type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Pneumatic <input type="checkbox"/> Other <i>(specify)</i> :	
5. Blasting Area: <input type="checkbox"/> Open <input checked="" type="checkbox"/> Totally Enclosed	
6. Add-On Control Technology: <i>Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").</i>	
<input checked="" type="checkbox"/> None <input type="checkbox"/> Baghouse / Fabric Filter – <i>Attach CE-02.</i> <input type="checkbox"/> Cyclone – <i>Attach CE-03.</i> <input type="checkbox"/> Electrostatic Precipitator – <i>Attach CE-04.</i> <input type="checkbox"/> Other <i>(specify)</i> : _____ – <i>Attach CE-10.</i>	
7. Control Techniques: <i>Identify all control techniques used for this process.</i>	
Venting indoors	
8. Process Limitations / Additional Information: <i>Identify any acceptable process limitations. Attach additional information if necessary.</i>	
Maintenance activities only, limited use, less than one (1) hour per month.	

This space is intentionally left blank.

**PART B: Blast Media Information**

Part B describes in detail the blast media. In the following table, list all corresponding information for the blast media.

9. Blast Media	10. Media Density (lb/ft <sup>3</sup> )	Pneumatic Blasting		Mechanical Blasting	
		11. Nozzle Internal Diameter (inches)	12. Nozzle Pressure (psig)	13. Blast Rate (lb/hr)	
Walnut Shell	53.00	0.12	60.00	49.00	

**PART C: Emission Factors**

Part C identifies all emission factors used to calculate air emissions from this process.

10. Process Unit (& ID if applicable)	11. Air Pollutant	12. Emission Factor		13. Source of Emission Factor (if not using AP-42, include calculations)	
		value	units		
BC1	PM	0.01	lb/lb	<input checked="" type="checkbox"/> AP-42	<input type="checkbox"/> Other
BC1	PM10/PM10	0.70	lb/lb PM	<input checked="" type="checkbox"/> AP-42	<input type="checkbox"/> Other
				<input type="checkbox"/> AP-42	<input type="checkbox"/> Other
				<input type="checkbox"/> AP-42	<input type="checkbox"/> Other
				<input type="checkbox"/> AP-42	<input type="checkbox"/> Other

**PART D: Federal Rule Applicability**

Part D identifies any federal rules that apply to the process.

14. Is a New Source Performance Standard (NSPS) applicable to this source?  Yes  No  
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart \_\_\_\_\_ (Specify):

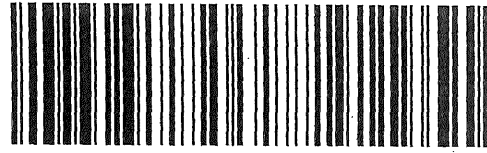
15. Is a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to this source?  Yes  No  
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart \_\_\_\_\_ (Specify):

40 CFR Part 63, Subpart \_\_\_\_\_ (Specify):

16. Non-Applicability Determination: Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

**CERTIFIED MAIL**

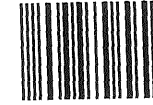


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