



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 11, 2011

RE: American Woodmark Corporation/053-31301I-00058

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Todd Regula
American Woodmark Corporation
Corporate EHS Manager
5300 East Side Parkway
Gas city, IN 46933

January 11, 2012

Re: Interim Significant Source Modification Petition Approval
053-31301I-00058

Dear Mr. Regula:

On December 22, 2011, the Office of Air Quality (OAQ) received an interim Significant Source Modification petition from American Woodmark Corporation, located at 5300 East Side Parkway, Gas City, Indiana for construction of a Framing Line, to be constructed in 2012, consisting of the following units:

- (a) Four (4) edge stain manual spray booths, identified as ESB1, ESB2, ESB3 and ESB4, utilizing air assisted airless spray application, using dry filters for particulate control, each booth with a capacity of 2.0 gallons of coating per hour, vented to stacks S-ESB1, S-ESB2, S-ESB3 and S-ESB4, respectively.
- (b) Two (2) pairs of back stain single roller coaters (push-in/out – cannot be operated at the same time), identified as BCC1 through BCC4, with a total maximum capacity of 4.0 gallons of coating per hour.
- (c) One (1) pair of face tone double roller coaters (push-in/out – cannot be operated at the same time), identified as FTC1 and FTC2, with a total maximum capacity of 4.0 gallons of coating per hour.
- (d) One (1) pair of brush stain single roller coaters (push-in/out – cannot be operated at the same time), identified as BSC1 and BSC2, with a total maximum capacity of 2.0 gallons of coating per hour.
- (e) One (1) pair of brush stain double roller coaters (push-in/out – cannot be operated at the same time), identified as BSC3 and BSC4, with a total maximum capacity of 4.0 gallons of coating per hour.
- (f) Three (3) pairs of sealer single roller coaters (push-in/out – cannot be operated at the same time), identified as SC1 through SC6, with a total maximum capacity of 0.75 gallons of coating per hour.
- (g) One (1) pair of top coat double roller coaters (push-in/out – cannot be operated at the same time), identified as TCC1 and TCC2, with a total maximum capacity of 0.5 gallons of coating per hour.
- (h) Two (2) direct fired natural gas ovens, identified as ESBO1 and ESBO2, with a combined heat rating of 0.16 MMBtu per hour, vented to stacks S-ESBO1 and S-ESBO2, respectively.
- (i) One (1) sanding operation, identified as SAND, having a maximum capacity of less than 3.74 tons per hour, with emissions controlled by a baghouse, and exhausting through stack SAND1.
- (j) Six (6) UV curing lamps, identified as CL1 through CL6.
- (k) Two (2) cooling tunnels.

A public notice of the interim Significant Source Modification petition was published in Chronicle-Tribune on December 23, 2011. The public comment period ended on January 5, 2012.

There were no comments received during the public comment period. This interim Significant Source Modification petition is in effect upon issuance and will expire on the effective date of the final Significant Source Modification permit.

This interim Significant Source Modification petition is in effect upon issuance and will expire on the effective date of the final Significant Source Modification permit.

The interim Significant Source Modification petition may be revoked after the effective date upon a written finding by the Indiana Department of Environmental Management (IDEM) that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final Significant Source Modification permit is denied. The IDEM has reviewed this interim Significant Source Modification petition and has not found any such reason. The facilities subject to this approval may not operate until the final Significant Permit Modification is issued by OAQ.

The interim Significant Source Modification petition is federally enforceable. Detailed construction and operation conditions will be specified in the final Significant Source Modification permit 053-31301-00058.

If you have any questions regarding this interim Significant Source Modification petition, please contact Mehul Sura, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Mehul Sura or extension 3-6868, or dial (317) 233-6868.

Sincerely,



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

Enclosure: Interim Permit Evaluation (19 pages)

mns

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

Alic Bent
August Mack Environmental Inc.
1302 North Meridian Street
Indianapolis, 46202

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

Interim Petition Checklist

Instructions: (a) Please answer yes or no.
(b) Enclose this checklist with the completed interim petition package.

Company Name: American Woodmark Corporation

Location: 5300 East Side Parkway, Gas City, Indiana

Yes	1.	Is the written interim petition prepared?
Yes	2.	Is the written petition signed and dated?
Yes	3.	Is the public notice drafted?
Yes	4.	Is the \$625 filing and review fee enclosed?
Yes	5.	Is the account number written on the check or money order?
Yes	6.	Is the Affidavit of Construction signed, dated, and notarized?
Yes	7.	Is the proposed modification/revision described in detail?
Yes	8.	Is the proposed modification/revision a modification or addition to an existing source?
Yes	9.	Is the proposed modification/revision located in an attainment area for all the criteria pollutants?
No	10.	Is the proposed modification/revision located in a nonattainment area? If yes, answer No. 11.
N/A	11.	Is the pollutant, which the nonattainment designation is based on, going to be emitted in this proposed modification/revision?
Yes	12.	Are potential emissions calculated?
Yes	13.	Is federal enforceability consent specifically indicated?
Yes	14.	Are specific conditions, limitations, and/or restrictions included that preclude applicability of PSD?
N/A	15.	Are specific conditions, limitations, and/or restrictions included that preclude applicability of NSPS?
No	16.	Are specific conditions, limitations, and/or restrictions included that preclude applicability of NESHAP?
Yes	17.	Are specific conditions, limitations, and/or restrictions included that assure compliance with all applicable state air pollution rules?
Yes	18.	Has a regular modification/revision permit application been submitted to OAQ?
N/A	19.	Is a regular modification/revision permit application going to be submitted to OAQ? If yes, indicate approximate date of submission:
No	20.	Has the proposed modification/revision commenced prior to the submission of the interim permit petition?
Yes	21.	The interim petition comment period has been decided to be: 14 calendar days

Additional Comments:



053 - 313011 - 00058 American Woodmark Corp., Grant Co.

Application Subtype:

This Activity Type
changes the Permit Status to...
<NO CHANGE> and
NO EFFECT ON CLOCK.

Permit Status Draft Clock Status Running

Timeclock Days 14 Calendar Days 14 Task Hours 0.00

d2d Last Event: Final Reviewed 01-04-2012 4 View All d2d

Tracking

Category TimeClock: Fees

Activity Type Permit Fees Received

Today 12-22-2011 Future Date

Filing / Permit Fee Information

Receipt # 1721740

Amount (\$) 500.00

Contract Payments

Invoice Number

Invoice Amount 0.00

d2d Tracking Activity

Is this an activity to be used in d2d analysis? ☒ Yes ☐ No

Assign to / Completed by

My Name

Select Name...

Betsy Thompson

Remove Name

Comment:

Also Forwarding to

Select Name...

Same As Above

Remove Name

Date

Today

Last Update

BTHOM 12-22-2011

Created Date

BTHOM 2011-12-22-14:19

Fee

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PETITION FOR INTERIM PERMIT

Source Name: American Woodmark Corporation

Source Address: 5300 Eastside Parkway Dr., Gas City, Indiana 46933

Mailing Address: 5300 Eastside Parkway Dr., Gas City, Indiana 46933

SIC Code: 2434

Description of the Operation or Equipment:

The equipment proposed to be installed for American Woodmark includes the following:

One (1) Framing Line, to be constructed in 2012, consisting of the following units:

- (a) Four (4) edge stain manual spray booths, identified as ESB1, ESB2, ESB3 and ESB4, utilizing air assisted airless spray application, using dry filters for particulate control. Each booth has a capacity of 2.0 gallons per hour. The four (4) spray booths are vented to stacks S-ESB1, S-ESB2, S-ESB3 and S-ESB4, respectively.
- (b) Two (2) pairs of back stain single roller coaters (push-in/out - cannot be operated at the same time), identified as BCC1 through BCC4, with a total maximum capacity of 4.0 gallons per hour.
- (c) One (1) pair of face tone double roller coaters (push-in/out - cannot be operated at the same time), identified as FTC1 and FTC2, with a total maximum capacity of 4.0 gallons per hour.
- (d) One (1) pair of brush stain single roller coaters (push-in/out - cannot be operated at the same time), identified as BSC1 and BSC2, with a total maximum capacity of 2.0 gallons per hour.
- (e) One (1) pair of brush stain double roller coaters (push-in/out - cannot be operated at the same time), identified as BSC3 and BSC4, with a total maximum capacity of 4.0 gallons per hour.
- (f) Three (3) pairs of sealer single roller coaters (push-in/out - cannot be operated at the same time), identified as SC1 through SC6, with a total maximum capacity of 0.75 gallon per hour.
- (g) One (1) pair of top coat double roller coaters (push-in/out - cannot be operated at the same time), identified as TCC1 and TCC2, with a total maximum capacity

of 0.5 gallon per hour.

- (h) Two (2) direct fired natural gas ovens, identified as ESBO1 and ESBO2, with a combined heat rating of 0.16 MMBtu per hour. Ovens ESBO1 and ESBO2 vent to stacks S-ESBO1 and S-ESBO2, respectively.
- (i) One (1) sanding operation, identified as SAND, having a maximum capacity of less than 3.74 tons per hour, with emissions controlled by a baghouse, and exhausting through stack SAND1.
- (j) Six (6) UV curing lamps, identified as CL1 through CL6.
- (k) Two (2) cooling tunnels.

The controlled/limited emissions for the proposed changes are listed below:

TABLE 1
Potential Emissions for the New Line After Controls and Limitations

Emission Unit	PM Emissions (tons/year)	PM10/PM2.5 Emissions (tons/year)	SOx Emissions (tons/year)	NOx Emissions (tons/year)	VOC Emissions (tons/year)	CO Emissions (tons/year)	HAP Emissions (tons/year)	eCO2 Emissions (tons/year)
Coating Operations	0.58 ⁽¹⁾	0.58 ⁽¹⁾	-	-	< 250 ⁽²⁾	-	> 10 single HAP and > 25 for total HAPs	0.00
Natural Gas-Fired Ovens	Neg.	Neg.	Neg.	0.1	Neg.	0.1	Neg.	84.61
Sanders	4.42	4.42	-	-	-	-	-	0.00
Total	5.0	5.0	Neg.	0.1	< 250	0.1	> 10 single HAP and > 25 for total HAPs	84.61

Notes: (1) - Based on a control efficiency of 95%.

(2) - PSD Minor Limit.

The source-wide controlled/limited emissions after the proposed changes are listed below:

TABLE 2
Potential Emissions for the Entire Source, After Controls and Limitations

Emission Unit	PM Emissions (tons/year)	PM10/PM2.5 Emissions (tons/year)	SO _x Emissions (tons/year)	NO _x Emissions (tons/year)	VOC Emissions (tons/year)	CO Emissions (tons/year)	HAP Emissions (tons/year)	eCO ₂ Emissions (tons/year)
Existing Units	83.49	< 250	Neg.	8.1	< 250	6.8	> 10 single HAP and > 25 for total HAPs	21,744.06
Framing Line	5.0	5.0	-	0.1	< 250	0.1	> 10 single HAP and > 25 for total HAPs	84.61
Total	< 88.49	< 250	Neg.	8.2	> 250	6.9	> 10 single HAP and > 25 for total HAPs	21,829

Federal Rules & Requirements:

NSPS Requirements:

There are no NSPS rules applicable to this operation or equipment.

NESHAP Requirements:

This source performs manufacturing of wood furniture as defined in the rule and is a major source of Hazardous Air Pollutants (HAPs). Therefore, the framing line is subject to the National Emissions Standards for Hazardous Air Pollutants for Wood Furniture Manufacturing Operations, 40 CFR 63, Subpart JJ.

State Rules & Requirements:

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

The existing emission units at the source are limited such that the source total VOC emissions are less than two hundred fifty (250) tons per year.

For this proposed modification, American Woodmark is requesting that the total amount of VOC delivered to the framing line be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period, including coatings, dilution solvents, and cleaning solvents, with compliance determined at the end of each month.

Therefore the source is not subject to 326 IAC 2-2 (Prevention of Significant Deterioration).

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of 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.

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the sanding operation shall not exceed 9.92 pounds per hour when operating at a process weight rate of 3.74 ton per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and

P = process weight rate in tons per hour

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

Pursuant to 326 IAC 6-3-2(d), particulate from each spray booth, identified as ESB1 through ESB4 shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

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

326 IAC 8-2-12 (Wood Furniture and Cabinet Coating) applies to the proposed modification to the source because it will be constructed after July 1, 1990 and has actual emissions greater than fifteen (15) pounds of VOC per day before add-on controls. Pursuant to this rule, the surface coating applied to wood furniture and cabinets shall utilize one 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 spray booths for the frame line will utilize HVLP spray technology and are therefore in compliance with this rule. Brush, roller coating, and wipe application techniques will be utilized on the Framing Line, therefore the line will be in compliance with this rule.

Federal Enforceability:

The company consents to the federal enforceability of this interim petition.

Signature: _____



Printed Name: Pete Palpant

Title or Position: Plant Manager

Phone No.: (765) 667-1690

Date: _____

12-21-11

Affidavit of Construction

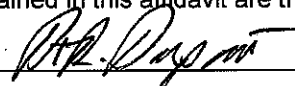
I, Pete Palpant, being duly sworn upon my oath, depose and say:

(Name of the Authorized Representative)

1. I live in Grant County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of Plant Manager for American Woodmark Corporation.
(Title) (Company Name)
3. By virtue of my position with American Woodmark Corporation, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of American Woodmark Corporation.
(Company Name)
4. I, the undersigned, have submitted an interim permit to the Office of Air Quality for the construction of a new framing line, consisting of four (4) spray booths, identified as ESB1 through ESB4, two (2) pairs of back stain single roller coaters, identified as BCC1 through BCC4, one (1) pair of face tone double roller coaters, identified as FTC1 and FTC2, one (1) pair of brush stain single roller coaters, identified as BSC1 and BSC2, one (1) pair of brush stain double roller coaters, identified as BSC3 and BSC4, three (3) pairs of sealer single roller coaters, identified as SC1 through SC6, one (1) pair of top coat double roller coaters, identified as TCC1 and TCC2, two (2) direct fired natural gas ovens, identified as ESBO1 and ESBO2, one (1) sanding operation, identified as SAND, six (6) UV curing lamps, and two (2) cooling tunnels.
5. American Woodmark Corporation recognizes the following risks:
(Company Name)
(a) own financial risk, (b) that IDEM may require additional or different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and
(d) any additional air permitting requirements.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature: 

Printed Name: Pete Palpant

Phone No.: (765) 667-1690

Date: 12-21-11

STATE OF INDIANA

COUNTY OF

SS

Grant

Subscribed and sworn to me, a notary public in and for Grant County and

State of Indiana on this 21st day of December, 20 11.

My Commission expires: 8/11/16



Miranda D. Ressler
Notary Public
Grant County
State of Indiana

My Commission Expires: August 11, 2016

Signature:

Miranda Ressler

Printed Name:

Miranda Ressler

**NOTICE OF 14-DAY PERIOD
FOR PUBLIC COMMENT**

Proposed Approval of an Interim Permit
for American Woodmark Corporation
in Grant County

Notice is hereby given that the above company located at 5300 Eastside Parkway Dr., Gas City, Indiana, has made application to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for an interim permit to construct a new framing line, consisting of four (4) spray booths, identified as ESB1 through ESB4, two (2) pairs of back stain single roller coaters, identified as BCC1 through BCC4, one (1) pair of face tone double roller coaters, identified as FTC1 and FTC2, one (1) pair of brush stain single roller coaters, identified as BSC1 and BSC2, one (1) pair of brush stain double roller coaters, identified as BSC3 and BSC4, three (3) pairs of sealer single roller coaters, identified as SC1 through SC6, one (1) pair of top coat double roller coaters, identified as TCC1 and TCC2, two (2) direct fired natural gas ovens, identified as ESBO1 and ESBO2, one (1) sanding operation, identified as SAND, six (6) UV curing lamps, and two (2) cooling tunnels. The potential to emit from the new equipment will be greater than 250 tons per year for VOC, 5.0 tons per year of particulate matter (PM), 5.0 tons per year of PM10, 5.0 tons per year of PM2.5, 84.61 tons per year of eCO₂, and 0.1 ton per year of NO_x and CO, respectively. The source will limit VOC emissions to less than 250 tons per year.

The company has submitted an application to revise their Part 70 Operating Permit (Title V). The OAQ shall review the application in accordance with the Permit Review Rules. Operation of the source cannot commence until a valid operating permit is issued. The construction of the proposed project is entirely at the applicant's own risk.

Notice is hereby given that there will be a period of 14 days from the date of publication of this notice during which any interested person may comment on why this interim permit should or should not be issued. Appropriate comments should be related to air quality issues, interpretation of the applicable state and federal rules, calculations made, technical issues, or the effect that the operation of this facility would have on any aggrieved individuals. A copy of the application and staff review is available for examination at the Gas City Mill Township Public Library, 135 East Main Street, Gas City, Indiana. All comments, along with supporting documentation, should be submitted in writing to the IDEM, OAQ, 100 North Senate Avenue, MC 61-53 Room 1003, Indianapolis, Indiana 46204-2552.

Persons not wishing to comment at this time, but wishing to receive notice of future proceedings conducted related to this action, must submit a written request to the Office of Air Quality (OAQ), at the above address. All interested parties of record will receive a notice of the decision on this matter and will then have 15 days after receipt of the Notice of Decision to file a petition for administrative review. Procedures for filing such a petition will be enclosed with the Notice.

Room 1003, Indianapolis, Indiana 46204-2552 or at 317/233-0178.

A handwritten signature in black ink, appearing to read "Pete Palpant". The signature is fluid and cursive, with a long horizontal stroke extending from the end.

Pete Palpant
American Woodmark Corporation



AMERICAN WOODMARK CORPORATION

~~PO BOX 11~~
5300 East Side Parkway
Gas City, Indiana 46933
Phone: (765) 677-1690
Fax: (765) 677-1695

FAX TRANSMISSION

TO: Christ: Houston DATE: 1/3/12

COMPANY: August Mack

FAX NUMBER: 317/916-8001

Total Pages Including Cover Sheet: 2

FROM: Lee LeMaster

American Woodmark Corporation

COMMENTS: I will UPS Hard copy

Lee

PUBLISHER'S AFFIDAVITGrant COUNTY
STATE OF INDIANA

American Woodmark/Notice of 14-Day Period

Personally appeared before me, a notary public in and for said county and state, the undersigned Joyce Walker
Who being duly sworn says that (he or she) is of competent age and is Legal Invoice Clerk of the CHRONICLE-TRIBUNE, a daily newspaper which for at least five (5) consecutive years has been published in the city of Marion, county of Grant, State of Indiana, and which, during that time, has been a newspaper of general circulation, have a bona fide paid circulation, printed in the English language and entered, authorized and accepted by the post-office department of the United States of America as mailable matter of the second-class as defined by the Act of Congress of the United States of March 3, 1979, and that the printed matter attached hereto is a true copy, which was duly published in said newspaper 1 time(s), the date(s) of publication being as follows:

December 23, 2011

Joyce Walker
AFFIANT

Subscribed and sworn to before me, this 23rd day of December 2011

Vicki S. Hite
Vicki S. Hite, Notary Public

My Commission Expires: May 18, 2016
County Residence: Wabash

PUBLISHER'S FEE \$ 256.15

VICKI S. HITE
Resident of Wabash County, IN
Commission Expires: May 18, 2016

roller coaters, identified as SC1 and SC2, one (1) pair of roller coaters, identified as SC3 and SC4, three (3) pairs of roller coaters, identified as SC1 through SC3, one (1) pair of top coat double roller coaters, identified as TCC1 and TCC2, two (2) direct fired natural gas ovens, identified as SSOC1 and SSOC2, one (1) sawdust burner, identified as SAND, six (6) UV curing lamps, and two (2) cooling tunnels. The potential to emit from the new equipment will be greater than 250 tons per year of VOC, 750 tons per year of particulate matter (PM), 5.0 tons per year of PM10, 50 tons per year of TSP, 84.61 tons per year of NOX, and 84.61 tons per year of CO, respectively. The source will limit VOC emissions to less than 250 tons per year.

The company has submitted an application to revise their permit to allow for the construction of the proposed project. In accordance with the Permit Review Rules, operation of the source cannot commence until a valid operating permit is issued. The construction of the proposed project is subject to the applicant's own risk.

Notary Public, I hereby certify that there was proper notice of this hearing given to all persons entitled to notice during which any interested person may have been heard. I have determined that the construction of the proposed project is subject to the applicant's own risk. I have determined that the construction of the proposed project is subject to the applicant's own risk. I have determined that the construction of the proposed project is subject to the applicant's own risk.

ATTACHMENT B
Potential to Emit Calculations

**Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

Coating Booth	Material	Density (lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water & Exempts	Weight % Organics	Volume % Water	Volume % Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water & exempts	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
Framing Line Edge Stain Booths (ESB1 - ESB4)	Cherry Spice Stain	7.26	65.03%	3.6%	78.1%	4.0%	13.22%	4.00000	1.000	5.91	5.87	22.69	544.58	99.39	5.71	42.91	75%
	Maple Cognac Edge BC	7.27	81.56%	4.3%	77.3%	4.6%	13.18%	4.00000	1.000	5.89	5.82	22.48	539.48	98.45	5.87	41.75	75%
Back Coat Roll Coaters (BCC1 - BCC4)	Cherry Spice Back Coat	9.41	1.46%	1.3%	0.2%	1.9%	97.98%	4.00000	1.000	0.02	0.02	0.07	1.66	0.30	0.00	0.02	100%
Face Tone Roll Coaters (FTC1 - FTC2)	Maple Espresso RC Stain (976-D6V-75)	7.97	81.63%	40.1%	41.6%	38.4%	12.39%	4.00000	1.000	5.38	3.31	13.25	318.11	58.08	0.00	26.74	100%
Brush Stain Roll Coaters (BSC1 - BSC4)	Cherry Bordeaux Rollcoat Brush (976-D6V-101)	7.86	84.87%	16.9%	37.9%	41.2%	11.47%	6.00000	1.000	5.37	2.98	17.89	429.28	78.34	0.00	25.99	100%
Sealer Roll Coaters (SC1 - SC6)	UV Rollcoat Sealer	9.69	1.11%	0.0%	1.1%	0.0%	98.89%	0.75000	1.000	0.11	0.11	0.08	1.94	0.35	0.00	0.11	100%
Top Coat Double Roll Coaters (TCC1 - TCC2)	60 Sheen UV Top Coat	9.10	0.05%	0.0%	0.0%	0.0%	100.00%	0.50000	1.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%

Potential Emissions

Add worst case coating to all solvents

Controlled Emissions (tons/yr):

76.46 1835.04 334.89 11.59 0.58

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lbs)
PM10 and PM2.5 emissions are assumed equal to PM
PM10/PM2.5 Potential Tons per Year = (units/hour) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating * Sum of all solvents used
Control Efficiency of 95%

HAP Emission Calculations

Material	Density (lb/gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % MIBK	Weight % Ethylbenzene	Weight % Xylene	Weight % Triethylamine	Weight % Glycol Ether	Weight % Solids	MIBK Emissions (ton/yr)	Ethylbenzene Emissions (ton/yr)	Xylene Emissions (ton/yr)	Triethylamine Emissions (tons/yr)	Glycol Ether Emissions (tons/yr)	VHAP content (lb VHAP/lb solids)
Edge Stain Booths (ESB1 - ESB4)															
Cherry Spice Stain	7.28	4.00	1.00	9.97%	0.17%	0.00%	0.00%	0.00%	17.97%	12.68	0.22	0.00	0.00	0.00	0.56
Maple Cognac BC	7.27	4.00	1.00	9.75%	0.16%	0.00%	0.00%	0.00%	12.70%	12.42	0.20	0.00	0.00	0.00	0.78
Back Coat Roll Coaters (BCC1 - BCC4)															
Cherry Spice Back Coat	9.41	4.00	1.00	0.00%	0.00%	0.00%	0.00%	0.00%	98.54%	0.00	0.00	0.00	0.00	0.00	0.00
Face Tone Roll Coaters (FTC1 - FTC2)															
Maple Espresso RC Stain	7.97	4.00	1.00	0.00%	0.00%	0.00%	0.35%	1.23%	19.37%	0.00	0.00	0.00	0.49	1.80	0.00
Brush Stain Roll Coaters (BSC1 - BSC4)															
Cherry Bordeaux Rollcoat Brush	7.86	6.00	1.00	0.00%	0.00%	0.00%	0.48%	0.00%	15.13%	0.00	0.00	0.00	0.99	0.00	0.00
Sealer Roll Coaters (SC1 - SC6)															
UV Rollcoat Sealer	9.69	0.75	1.00	0.00%	0.00%	0.02%	0.00%	0.00%	98.89%	0.00	0.00	0.01	0.00	0.00	0.00
Top Coat Roll Coaters (TCC1 - TCC2)															
60 Sheen UV Top Coat	9.10	0.50	1.00	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00	0.00	0.00	0.00	0.00	0.00
Total Potential Emissions (tons/year)										25.10	0.42	0.01	1.48	1.80	
Total HAP Emissions (tons/yr)										28.80					

METHODOLOGY

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

Sanding Operation Emissions

Based on the amount of dust collected and control efficiency of the control device.

Amount collected: this is the amount of dust collected from the control device in pounds per hour (lb/hr).

Efficiency: a percent and is based on the manufactures specifications

Amount collected: 100 lbs per hour

Efficiency: 99%

Uncontrolled emissions (lbs/hr) = (Amount collected lb/hr) / (control efficiency)

Uncontrolled emissions = (100 lbs/hr) / (0.99)

= 101.01 lbs/hr

Uncontrolled emissions (tons/yr) = (101.01 lbs/hr) x (8760hrs/yr) x (ton/2000 lbs)

= 442.42 tons/yr

Controlled emissions (lbs/hr) = (Uncontrolled emission rate lb/hr) x (1- control efficiency)

Controlled emissions (tons/yr) = (101.01 lb/hr) x (1- 99%) x (8760 hrs/yr) x (ton/2000 lbs)

= 4.42 tons/yr

Appendix A: Emissions Calculations Natural Gas Combustion Only

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

0.16

1.4

	Pollutant										
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO	CO2	CH4	N2O	eCO2
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100.0 **see below	5.5	84.0	120000	2.3	2.2	
Potential Emission in tons/yr	0.0	0.0	0.0	0.0	0.1	0.0	0.1	84.10	0.0016	0.0015	84.61

*PM emission factor is filterable PM only. PM10/PM2.5 emission factors are filterable and condensable combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

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

See page 2 for HAPs emissions calculations.

**Natural Gas Combustion Only
HAPs Emissions**

	HAPs - Organics				
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyd 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Emission Factor in lb/MMcf					
Potential Emission in tons/yr	1.472E-06	8.410E-07	5.256E-05	1.261E-03	2.383E-06

	HAPs - Metals				
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Emission Factor in lb/MMcf					
Potential Emission in tons/yr	3.504E-07	7.709E-07	9.811E-07	2.663E-07	1.472E-06

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

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

TO: Todd Regula
Corporate EHS Manager
American Woodmark Corporation
5300 East Side Parkway
Gas City, IN 46933

DATE: January 11, 2011

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

SUBJECT: Final Decision
Interim Significant Source Modification Petition
053-31301I-00058

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Pete Palpant
Alic Bent, Consultant
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	PWAY 1/11/2012 American Woodmark Corporation 053-313011-00058-Interim (final)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handling Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Todd Regula American Woodmark Corporation 5300 East Side Pkwy Gas City IN 46933 (Source CAATS)									
2		Pete Palpant Plant Mgr American Woodmark Corporation 5300 East Side Pkwy Gas City IN 46933 (RO CAATS)									
3		Marion City Council and Mayors Office 301 S. Branson Street Marion IN 46952-4052 (Local Official)									
4		Grant County Commissioners 401 South Adams Marion IN 46953 (Local Official)									
5		Ms. Mary Shipley 10968 E 100 S Marion IN 46953 (Affected Party)									
6		Grant County Health Department 401 S. Adams St, Courthouse Complex Marion IN 46953-2031 (Health Department)									
7		Mr. Thomas Lee Clevenger 4005 South Franks Lane Selma IN 47383 (Affected Party)									
8		Gas City - City Council and Mayors Office 211 E. Main St. Gas City IN 26933 (Local Official)									
9		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
10		Alic Bent August Mack Environmental Inc. 1302 North Meridian Street Indianapolis IN 46202 (Consultant)									
11											
12											
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