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DIVISION OF AIR RESOURCE MANAGEMENT

SURFACE COATING OPERATIONS AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

0890436-002

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
Continue operating the facility after a change of ownership.
Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): 0890436-001
No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Masonite Corporation

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

Masonite Yulee DorFab

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 86550 Gene Lassere Blvd.

City: Yulee

County: Nassau

Zip Code: 32097

3382

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Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)  
August 27, 2010

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**Owner/Authorized Representative**

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: Donald Kallstrand, General Manager

Owner/Authorized Representative Mailing Address

Organization/Firm: Masonite Corporation  
Street Address: 86550 Gene Lassere Blvd  
City: Yulee County: Nassau Zip Code: 32097-0000 **3382**

Owner/Authorized Representative Telephone Numbers

Telephone: (800) 260-6032 Fax: (800) 260-6995  
Cell phone (optional): (904) 583-5697

**Facility Contact (If different from Owner/Authorized Representative)**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: SAME

Facility Contact Mailing Address

Organization/Firm:  
Street Address:  
City: County: Zip Code:

Facility Contact Telephone Numbers


Telephone: Fax:  
Cell phone (optional):

**Owner/Authorized Representative Statement**

This statement must be signed and dated by the person named above as owner or authorized representative

*I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.*

*I will promptly notify the Department of any changes to the information contained in this registration form.*

  
Signature

12/13/2011  
Date

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**Material Usage Rates**

If this is an **initial registration** for a surface coating operation, provide an estimate of the average quantity of volatile organic compounds in all coatings (solvents and thinners) expected to be used on a daily basis.

3.5 pounds/day of VOC

If this is a **re-registration** for an existing surface coating operation, provide the highest monthly average of the daily quantity of volatile organic compounds in all coatings (solvents and thinners) used in the last five years. Indicate the month and year during which this usage occurred.

See Attachment #1

**Description of Facility**

Below, or as an attachment to this form, provide a description of the surface coating operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

See Attachment #2

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Attachment #1

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## Yulee Dorfab June 2011 VOC Usage

Facility ARMS No.0890436-001  
 FL DEP Rule 62-310.210(4)(c)(2)(a) -- Surface Coating General Permit

Supplier	MP Part #	MP Description	Emitted VOC (lb/gal)	Purchases (gallons)	Previous Inventory (gallons)	Current Inventory (gallons)	VOC Emmission (pounds)
Akzo Nobel	6496408	Woodhaven Basecoat AN 630-D029-372	0.52	10	6	3	6.76
Akzo Nobel	6496409	Wineberry Basecoat AN 630-R029-370	0.51	5	15.2	3	8.772
Akzo Nobel	6496407	Oak Crest Basecoat AN 630-D029-371	0.52	5	13	3	7.8
Akzo Nobel	6496410	Oak Crest Wiping Glaze AN 644-D029-251	0.15	20	24	8	5.4
Akzo Nobel	6496411	Wineberry Wiping Glaze AN 644-D029-250	0.15	10	20	4	3.9
Akzo Nobel	6496412	Sheen 2K WB Topcoat AN 670-30L029-24	0.41	15	10	8	6.97
Akzo Nobel		Adhesion Promoter	6.93	10	4	4	69.3
Sherwin Willams	6496394	Evergreen SW001 Satin Exterior	0.33	10	18	15	4.29
Sherwin Willams	6496402	Peppercorn SW002 Satin Exterior	0.37	20	20	4	13.32
Sherwin Willams	6496403	Bisque SW003 Satin Exterior	0.36	5	18	4	6.84
Sherwin Willams	6496404	Arctic White SW004 Satin Exterior	0.36	20	23	4	14.04
Sherwin Willams	6496405	Currant Red SW005 Satin Exterior	0.34	20	6	3	7.82
Sherwin Willams	6496406	Foxtail SW006 Satin Exterior	0.34	20	20	6	11.56
Sherwin Willams	6496414	Conifer SW007 Satin Exterior	0.32	0	10	2	2.56
Sherwin Willams	6496415	Canyon View SW008	0.34	0	10	3	2.38
Sherwin Willams	6496416	Jet Black SW009	0.33	0	5	4	0.33
Sherwin Willams	6496417	Golden Haystack SW010	0.35	0	10	3	2.45
Sherwin Willams	6496418	Red Bluff SW011	0.32	0	8	4	1.28
Sherwin Willams	6496419	Willow Wood SW012	0.32	0	5	2	0.96
Sherwin Willams	6496420	Ultra Pure White SW013	0.36	0	5	2	1.08
Sherwin Willams	6496421	Siver Cloud SW014	0.34	0	15	3	4.08
Sherwin Willams	6496422	Night Tide SW015	0.33	5	4	2	2.31
Sherwin Willams	6496426	Polypropylene Primer P64CH2 5 GAL	6.93	0	10.5	4	45.045
Sherwin Willams	6496429	Ultra Pure White / Ultra White Interior Semi	0.77	0	15	3	9.24
Sherwin Willams	6496430	Elegant/Dove White Interior Semi	0.80	5	14	3	12.8
Sherwin Willams	6496431	White Interior Semi	0.80	15	15	9	16.8
Sherwin Willams	6496432	BRE Interior Clear Coat T75F556	0.86	10	14	4	17.2
Sherwin Willams	6496423	Golden/Honey SW016 5 GAL	0.30	0	9	4	1.5
Sherwin Willams	6496424	Espresso/Chocolate SW017 5 GAL	0.38	0	5.5	4	0.57
Sherwin Willams	6496425	Mahogany/Cherry SW018 5 GAL	0.31	0	13.8	2	3.658
Akzo Nobel	6496495	Dark Waknut BaseCoat		5	4	5.7	
Akzo Nobel	6496499	Dark Walnut Glaze		5	3	6.1	0
Total Monthly VOC Emissions (lbs/month)							291.015
30 days per month							30
Average Daily VOC Emissions (lbs/day)							9.70
PERMIT LIMIT -- Max VOC pounds/day							44

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Attachment #2

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**Masonite Corporation  
Yulee DorFab  
86550 Gene Lasserre Blvd.  
Yulee, FL 32097**

**Pre-Finish Paint Line Project  
April 2010**

**Process Description**

The pre-finish process will provide a finished coating to wood, fiberglass, and steel doors using an automatic conveyor to move the doors through the following stations.

Door Preparation – Prior to entering the coating station, doors will be wiped with acetone to remove any scuff marks that could impact the quality of the finish.

On-Line Manual Spray Paint Booth – Doors will enter the spray booth and be manually sprayed using air atomizing spray guns. Either paints or stains will be applied in the booth. A final clear topcoat will be applied to both painted and stained doors on a subsequent pass-through. The coatings are all water based, and criteria pollutant emissions from this process include both VOCs and particulate.

In practice, a small amount of VOCs will be emitted from the flash-off tunnel and the drying oven; however, the majority of the VOCs will be emitted through the paint booth stack.

Flash-off Tunnel – Next the doors will move through this unheated, ventilated chamber prior to entering the dryer. As noted above, in practice, a small amount of VOCs may be emitted from this process, but the assumption is made that all VOCs are emitted at the paint booth.

Drying Oven – Doors will pass through a 1.3 MMBtu/hr rated propane heated drying oven to cure the paint and minimize any blemishes or dust contamination that could occur if air-drying were used. As noted above, in practice, a small amount of VOCs may be emitted from this process, but the assumption is made that all VOCs are emitted at the paint booth. In addition, emissions from the combustion of the natural gas used to generate heat for drying are also accounted for in this step.

The size of (1.3 MMBtu/hr) and fuel used by (propane) the drying oven exempt the unit from permitting as per 62-210.300(3)a.33., F.A.C.

Off Line Manual Spray Paint Booth – Incidental touch-up, repair, and special product operations will take place in this booth. Utilization of this booth is expected to be approximately 10% of the time. VOC and particulate emissions from the painting operation in this booth are expected to be minimal.

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### Material Usage Rates

Material usage rates are expected to average 6 gallons per day, with a maximum potential of 60 gallons per day.

### Process Rate

The expected average process rate is to coat 6 door slabs per hour. Maximum potential process rate is estimated be 20 door slabs per hour.

### HAP and Criteria Pollutant Emissions

Emissions of Hazardous Air Pollutants and Criteria Air Pollutants will not exceed the limits set in the Surface Coating Operations Air General Permit eligibility criteria. The following table summarizes the expected average and maximum potential emissions of the spray coating operation, compared to the Surface Coating eligibility criteria.

Pollutant	Expected Average Emissions	Maximum Potential Emissions	Surface Coating Operations General Permit Eligibility Criteria
VOCs	3.5 lb/day	35 lb/day	<44 lbs/day (monthly avg.)
VOCs	0.5 tpy	6.3 tpy	<100 tpy
PM/PM10	0.01 tpy	0.22 tpy	<100 tpy
HAPs	1.1 tpy	3.7 tpy	<10 tpy for any single HAP
HAPs	1.1 tpy	3.7 tpy	<25 tpy for all combined HAPs

Worst case assumptions were used when calculating emissions, including:

- 100% of the VOCs in the coatings are emitted
- No downtime for breaks or maintenance is factored in
- Maximum VOC, solids, and HAP content are used in all calculations
- Minimum filter efficiency for PM removal is used in the PM calculations
- Maximum potential emissions are based on 8760 operating hours per year

### Operating Schedule

Normal operating schedule at the facility is one 8-hour shift, 5 days per week, 52 weeks per year. Occasionally, the work week is extended to 6-days, or shifts are extended to 10 hours. It is possible that a second shift could be added at a later date.

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**Masonite Corporation  
Yulee DorFab  
86550 Gene Lasserre Blvd.  
Yulee, FL 32097**

**New Door Jamb Coating Machine  
December 2011**

**Process Description**

The door jamb coating machine will provide a finished coating to wood door components using an automated conveyer to move the components into a capsule where they will be sprayed using automated atomizing spray heads. Both paints and stains will be applied in the capsule. The coatings are both water based for the paints and solvent based for the stains, and criteria pollutant emissions from this process include both VOCs and Particulate.

We will be installing a new jamb line coating machine to simplify the door jamb component coating operation. Currently, the jambs are painted on the automatic line. The new machine will provide a more controlled painting operation with less overspray.

The new machine will move the location of the of jamb painting operation from the automated line to the door jamb coating machine. There will be no increase in production above current exemption levels, and no changes in the type of paint or stain used at the facility. Based on this information, we believe that we will remain an exempt source

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December 16, 2011

FedEx Overnight Package  
4940 9938 7088

Florida Department of Environmental Protection  
3800 Commonwealth Blvd.  
Mail Station 77  
Tallahassee, FL 32399

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**Re: Masonite Yulee DorFab  
Equipment Change**

Dear FDEP:

Masonite Corporation currently operates a door fabrication system in Yulee, Florida. The facility is re-submitting a Surface Coating Operations Air General Permit Registration Form for your consideration, to allow the installation of a Door Jamb Coating Machine for use with our existing system for the production of pre-finished doors. The details of the operation are outlined in the attached process description. The \$100 processing fee is also enclosed with this application.

If there are questions concerning the content of this application, or if you need additional information, please feel free to contact me by telephone or email at the number or email address listed below.

Please direct all written correspondence regarding this application to Masonite Yulee DorFab, Attention Mr. Donald Kallstrand, General Manager, 86550 Gene Lassere Blvd., Yulee, FL 32097.

Thank you for your assistance with this project.

Kind Regards,

Chris Scharaldi  
Regional EHS  
Masonite Interantional

Enclosures