## Merillat.

#### Certified Mail

Department of Environmental Protection Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

Attention: L.T. Kozlov, P.E. Program Administrator

Re: Permit Number 0830137-001-AC

Dear Mr. Kozlov:

Enclosed, please find four (4) copies of the Title V Operating Permit Application for Merillat-Ocala.

Please feel free to contact me with any questions. My number is 352-291-4622.

Sincerely,

Donna R. Tackett

Donna RTackett

Environmental, Health & Safety Coordinator



## Department of **Environmental Protection**

AV/OO NO FEE ZAHM

**Division of Air Resources Management** 

### APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

### I. APPLICATION INFORMATION

<u>1a</u>	entification of Facility			
1.	Facility Owner/Company Name: M	Merillat	Corporation	
2.	Site Name: Merillat-Ocala			
3.	Facility Identification Number: 083	30137		[ ] Unknown
4.	Facility Location: Ocala, Florida Street Address or Other Locator: 13			
	City: Ocala C	ounty: N	Marion	Zip Code: 34474
5.	Relocatable Facility?		6. Existing P	ermitted Facility?
	[ ] Yes [ \( \sigma \)] No		[✓] Yes	[ ] No
A	oplication Contact			
1.	Name and Title of Application Con Safety Coordinator	tact: Do	onna Tackett, En	vironmental, Health, and
2.	. Application Contact Mailing Address: Organization/Firm: Merillat Corporation			
	Street Address: 1300 S.W. 38 <sup>th</sup> Avo	enue		
	City: Ocala	St	ate: FL	Zip Code: 34474
3.	Application Contact Telephone Nur	mbers:		
	Telephone: (352) 291-4622		Fax: (352)	291-4603
<u>Ar</u>	oplication Processing Information (	DEP U	se)	
1.	Date of Receipt of Application:	2/	23/01	
2.	Permit Number:	083	30137-002	-AV
3.	PSD Number (if applicable):			
4.	Siting Number (if applicable):			

DEP Form No. 62-210.900(1) - Form

## **Purpose of Application**

### **Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

[✓	]	Initial Title V air operation permit for an existing facility which is classified as a Title V source.
[	]	Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.
		Current construction permit number:
[	]	Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.
		Current construction permit number:
		Operation permit number to be revised:
[	]	Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)
		Operation permit number to be revised/corrected:
[	]	Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.
		Operation permit number to be revised:
		Reason for revision:
Ai	r (	Construction Permit Application
Th	is	Application for Air Permit is submitted to obtain: (Check one)
[	]	Air construction permit to construct or modify one or more emissions units.
[	]	Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
ſ	1	Air construction permit for one or more existing, but unpermitted, emissions units.

### Owner/Authorized Representative or Responsible Official

1.	Name and Title of Owner/Authorized Representative or Responsible Official:
	John Bankey, Director of Operations

2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm:

Street Address: 1300 S.W. 38th Avenue

City: Ocala

State: FL

Zip Code: 34474

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (352) 291-4610

Fax: (352) 291-4601

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative \*(check here  $[\ ]$ , if so) or the responsible official (check here  $[\ '\ ]$ , if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained 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 understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

Signature

Date

2/26/01

#### **Professional Engineer Certification**

1. Professional Engineer Name: Victor A. Hurlburt

Registration Number:

No. 33836

2. Professional Engineer Mailing Address:

Organization/Firm:

Malcolm Pirnie, Inc.

Street Address:

2301 Maitland Center Parkway, Suite 140

City: Maitland

State: FL

Zip Code: 32751-7414

3. Professional Engineer Telephone Numbers:

Telephone: (407) 660-1133

Fax: (407) 660-9550

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<sup>\*</sup> Attach letter of authorization if not currently on file.

### 4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein\*, that:

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here  $[\checkmark]$ , if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

That h Hurlburs

2/22/01

Date

\* Attach any exception to certification statement.

## **Scope of Application**

Emissions		Permit Type	Processing
Unit ID	Description of Emissions Unit		Fee
1	Woodworking equipment including saws, borers, routers, shaping/carving, sanding and brushing machines.	NA	NA
2	Finishing material application spray booths, curing ovens, storage area, and glue/adhesive applicators.	NA	NA
			·
	·		

## **Application Processing Fee**

Check one: [ ] Attached - Amount:	[ ✓ ] Not Applicable
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## **Construction/Modification Information**

1. Description of Proposed Project of	or Alterations:
Not Applicable (NA)	
Projected or Actual Date of Comr	nencement of Construction:
3. Projected Date of Completion of	Construction:
Application Comment	
None	
TVOICE	
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### II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

### **Facility Location and Type**

1.	Facility UTM Coor	dinates:		
	Zone: 17	East (km)	: Nort	th (km):
2.	Facility Latitude/Lo	•		
	Latitude (DD/MM/	SS): 29°10′30″	Longitude (DD/MN	M/SS): 82°11'15"
3.	Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s):
	Facility Code:	Code:	Group SIC Code:	
l.	0	A	24	2434
7.	Facility Comment (	limit to 500 characters):		
For	r additional inform <u>a</u> t	ion regarding the facility	v, see Attachment A.	

## **Facility Contact**

1. Name and Title of Facility Contact:		
Donna Tackett, Environmental, Health, an	nd Safety Coordin	nator
2. Facility Contact Mailing Address:		
Organization/Firm: Merillat Corporation	on.	
Street Address: 1300 S.W. 38 <sup>th</sup> Avenue	•	
City: Ocala	State: FL	Zip Code: 34474
3. Facility Contact Telephone Numbers:		
Telephone: (352) 291-4622	Fax: (	352) 291-4603

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## **Facility Regulatory Classifications**

## Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [✓] Major Source of Pollutants Other than Hazardous Air	r Pollutants (HAPs)?
3. [ ] Synthetic Minor Source of Pollutants Other than HA	Ps?
4. [✓] Major Source of Hazardous Air Pollutants (HAPs)?	
5. [ ] Synthetic Minor Source of HAPs?	
6. [ ] One or More Emissions Units Subject to NSPS?	
7. [✓] One or More Emission Units Subject to NESHAP?	·
8. [ ] Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200	characters):
The facility is a major source of VOC emissions based on pote than 100 tons per year, and a major source of HAP emissions the emissions above the 10/25 tons per year thresholds.	

## **List of Applicable Regulations**

40 CFR 63, Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations
62-210.300 (1) Air Construction Permits
62-210.300 (2) Air Operation Permits
62-212 Preconstruction Review (General Requirements only)
62-213 Operation Permits for Major Sources of Air Pollution
62-296.712 Miscellaneous Manufacturing Process Operations
62-297.620 Exceptions and Approval of Alternate Procedures and Requirements (alternative standard
of 5 % opacity for units equipped with a baghouse. Proposed in lieu of 62-296.712)

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### **B. FACILITY POLLUTANTS**

## **List of Pollutants Emitted**

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested En	missions Cap	4. Basis for Emissions	5. Pollutant Comment
		lb/hour	tons/year	Сар	
VOC	A		249	ESCPSD	Proposed facility-wide VOC emission limit
HAPS	A				
PM	В				
PM10	В				
					·
				,	
·					
			<u> </u>	<u> </u>	

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### C. FACILITY SUPPLEMENTAL INFORMATION

## **Supplemental Requirements**

1.	Area Map Showing Facility Location:
	[ ] Attached, Document ID: [ ] Not Applicable [ ] Waiver Requested
2.	Facility Plot Plan:
	[ ] Attached, Document ID: [ ] Not Applicable [✓] Waiver Requested
3.	Process Flow Diagram(s):
	[   Attached, Document ID: Attachment A [ ] Not Applicable [ ] Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:
	[ ] Attached, Document ID: [ ] Not Applicable [ ] Waiver Requested
5.	Fugitive Emissions Identification:
	[ ] Attached, Document ID: [ / ] Not Applicable [ ] Waiver Requested
6.	Supplemental Information for Construction Permit Application:
	[ ] Attached, Document ID: [✓] Not Applicable
7.	Supplemental Requirements Comment:
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## Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
[ ] Attached, Document ID: [✓] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[ ] Attached, Document ID:
[ ] Equipment/Activities On site but Not Required to be Individually Listed
[✓] Not Applicable
10. Alternative Methods of Operation:
[ ] Attached, Document ID: [ \( \sigma \) ] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[ ] Attached, Document ID: [✓] Not Applicable
12. Identification of Additional Applicable Requirements:
[ ] Attached, Document ID: [✓] Not Applicable
13. Risk Management Plan Verification:
[ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:) or previously submitted to DEP (Date and DEP Office:)
[ ] Plan to be submitted to CEPPO (Date required:)
[ ] Not Applicable
14. Compliance Report and Plan:  [✓] Attached, Document ID: Attachment C [ ] Not Applicable
15. Compliance Certification (Hard-copy Required):  [✓] Attached, Document ID: Attachment C [ ] Not Applicable

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### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

# A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

### **Emissions Unit Description and Status**

1.	Type of Emission	s Unit Addressed in Thi	s Section: (Check one)	
[	process or prod		n addresses, as a single emis which produces one or more a on point (stack or vent).	, –
[~	[ In This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.			
[	<del>-</del>		n addresses, as a single emis s which produce fugitive em	
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)	
[✓	The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated
] [	] The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is an unregulated
3.	Description of Em	issions Unit Addressed	in This Section (limit to 60 c	haracters):
	iscellaneous woodv nding and brushing		ding saws, borers, routers, sl	naping/carving,
4.	Emissions Unit Io ID: 1	lentification Number:		[ ] No ID [ ] ID Unknown
5.	Emissions Unit Status Code:	6. Initial Startup Date: 11/2000	7. Emissions Unit Major Group SIC Code: 24	8. Acid Rain Unit?
9.	Emissions Unit C	omment: (Limit to 500 (	Characters)	

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## Emissions Unit Information Section: 1 of 2

## **Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):	
Baghouse (fabric filter) dust collection systems.	
2. Control Device or Method Code(s): 018	-
Emissions Unit Details	

1.	Package Unit: N/A			
	Manufacturer:	Model Number:		
2.	Generator Nameplate Rating:	MW		
3.	Incinerator Information:			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
	Incinerator Afterburner Temperature:		°F	

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# B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

## **Emissions Unit Operating Capacity and Schedule**

1.	Maximum Heat Input Rate:	:	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Throug	hput Rate:	
4.	Maximum Production Rate:	193 cabinets/hour; 910,000 cabinets/yr	
5.	Requested Maximum Operation	ng Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year

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# C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

## **List of Applicable Regulations**

62-297.620(4) [in lieu of 62-296.712(2)]	
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ı	· 1

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# D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

## **Emission Point Description and Type**

1. Identification of Point on P	ot Plan or	2. Emission Po	oint Type Code: 3		
Flow Diagram?					
see flow diagram in Attachme	ent A	1. 5			
3. Descriptions of Emission Po	ints Comprising	this Emissions U	Init for VE Tracking (limit to		
100 characters per point):					
	.•	. 1.			
Emissions from the woodworking operations are vented to common baghouse dust collection					
systems. There are three baghouse systems with a single exhaust stack for each baghouse.					
4 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CD :	** *** *** *** ***			
4. ID Numbers or Descriptions	s of Emission Ui	nits with this Emi	ssion Point in Common: N/A		
			•		
5. Discharge Type Code:	6. Stack Heig	ht•	7. Exit Diameter:		
V	50 feet		5 feet		
•	30 1000		3 1660		
8. Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
ambient	Rate:		%		
	appro	x. 80,000 cfm	·		
11. Maximum Dry Standard Flo			nission Point Height:		
	dscfm		feet		
	4.				
13. Emission Point UTM Coord	linates:				
Zone: E	ast (km):	Nortl	h (km):		
14. Emission Point Comment (l	imit to 200 char	acters).			
The Emission Form Common (1	milit to 200 char	ucters).			
/					

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Emissions Unit Informa A Section: 1 of 2

# E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Proc	cess/Fuel Type)	(limit to 500 cha	uracters):
Miscellaneous woodworking o	operations - sandi	ing/planing oper	ations
2. Source Classification Code	e (SCC):	3. SCC Units:	
3-07-030-98			Board Feet
4. Maximum Hourly Rate: see below	5. Maximum A see belo	Annual Rate:	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum 9 N	% Ash: /A	9. Million Btu per SCC Unit: N/A
10. Segment Comment (limit t	o 200 characters	):	
For above items 4. and 5., max cabinets produced (not board f represent the maximum hourly	eet processed).	193 cabinets/hr a	ill correspond to the number of and 910,000 cabinets/yr
Segment Description and Ra	te: Segment	of	
1. Segment Description (Proc	ess/Fuel Type)	(limit to 500 ch	aracters):
		·	
	•		
			\.'
2. Source Classification Code	e (SCC):	3. SCC Units	<b>3:</b>
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit t	o 200 characters	):	

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Emissions Unit Information Section: 1 of 2

# F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code EL (VE limit)
$PM, PM_{10}$	018	N/A	EL (VE limit)
			•
<u> </u>			
·			
* .			
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# Emissions Unit Informa. A Section 1 of 2 Pollutant Detail Information Page 1 of 1

# G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

### **Potential/Fugitive Emissions**

1. Pollutant Emitted:	2. Total Percent Efficie	•
PM, PM <sub>10</sub>	99 - 99.9 % (	estimated)
3. Potential Emissions:		4. Synthetically
1.04 lb/hour	1.2 tons/year	Limited? [✓]
5. Range of Estimated Fugitive Emissions:		
[ ] 1 [ ] 2 [ ] 3	to to:	ns/year
6. Emission Factor: N/A		7. Emissions
Reference: N/A (process knowledge	/material balance basis)	Method Code: 2
8. Calculation of Emissions (limit to 600 char	acters):	
See Attachment B for detailed emission ca	lculations	
	,	
9. Pollutant Potential/Fugitive Emissions Con	ment (limit to 200 charac	ters):
PM, PM <sub>10</sub> emissions limited based on maximum and 910,000 cabinets/yr and for "top-shop" ope	•	

### Allowable Emissions:

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
RULE	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	1.04 lb/hour 1.2 tons/year
5. Method of Compliance (limit to 60 characte	rs): See H.4. on the following page.
6. Allowable Emissions Comment (Desc. Of C	perating Method) (limit to 200 characters):
	·

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# H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype: VE05	2.	Basi	s for Allowable O	pacity:
			[ ✓	Rule	[ ] Other
3.	Requested Allowable Opacity:				
	Normal Conditions: 5 % Ex	cep	tional	Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:			min/hour
4.	Method of Compliance:				
	Initial visible emissions evaluation (VEE) c			_	
	Method 9. Subsequent compliance demons emissions observations.	trati	ons b	ased on Method 2	2 periodic visible
_		<b>l</b>	-4		· · · · ·
5.	Visible Emissions Comment (limit to 200 c	nara	cters	:	•
		~			
	<u> </u>			<del></del>	
	I CONTINUOUS MO	NITT			
	I. CONTINUOUS MO	$\mathbf{N}11$	OR I	<b>NFORMATION</b>	
				<del>-</del> - ·	
Co	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Sub	ject	to Continuous M	
	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Sub Mor	ject in	to Continuous M N/A	
	(Only Regulated Emissions Units	Sub Mor	ject in	to Continuous M	
	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Sub Mor	ject in	to Continuous M N/A utant(s):	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:	Sub Mor	pject initor: Polli	N/A utant(s):	onitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information:	Sub Mor	pject initor: Polli	N/A utant(s):	onitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer:	Sub Mor	pject nitor: Polli	to Continuous Manda N/A utant(s):	onitoring)
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer: Model Number:	Sub Mon 2.	pject mitor: Polli	to Continuous M  N/A  utant(s):  ule [  Gerial Number:	Onitoring)
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer:	Sub Mon 2.	pject mitor: Polli	to Continuous Manda N/A utant(s):	Onitoring)
1. 3. 4.	(Only Regulated Emissions Units Intinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer: Model Number: Installation Date:	Sub Mon 2. [	Pollinitor: Pollinitor: Pollinitor: Pollinitor: Pollinitor:	to Continuous Manual N/A utant(s):  ule [ Serial Number: cormance Specification	Onitoring)
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer: Model Number:	Sub Mon 2. [	Pollinitor: Pollinitor: Pollinitor: Pollinitor: Pollinitor:	to Continuous Manual N/A utant(s):  ule [ Serial Number: cormance Specification	Onitoring)
1. 3. 4.	(Only Regulated Emissions Units Intinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer: Model Number: Installation Date:	Sub Mon 2. [	Pollinitor: Pollinitor: Pollinitor: Pollinitor: Pollinitor:	to Continuous Manual N/A utant(s):  ule [ Serial Number: cormance Specification	Onitoring)
1. 3. 4.	(Only Regulated Emissions Units Intinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information: Manufacturer: Model Number: Installation Date:	Sub Mon 2. [	Pollinitor: Pollinitor: Pollinitor: Pollinitor: Pollinitor:	to Continuous Manual N/A utant(s):  ule [ Serial Number: cormance Specification	Onitoring)
1. 3. 4.	(Only Regulated Emissions Units Intinuous Monitoring System: Continuous Parameter Code:  CMS Requirement:  Monitor Information:     Manufacturer:     Model Number:  Installation Date:  Continuous Monitor Comment (limit to 200	Sub Mon 2. [	Pollinitor: Pollinitor: Pollinitor: Pollinitor: Pollinitor:	to Continuous Manual N/A utant(s):  ule [ Serial Number: cormance Specification	Onitoring)

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# J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

## **Supplemental Requirements**

1.	Process Flow Diagram
	[ ] Attached, Document ID: See Attach. A [ ] Not Applicable [ ] Waiver Requested
2.	Fuel Analysis or Specification
	[ ] Attached, Document ID: [✓] Not Applicable [ ] Waiver Requested
3.	Detailed Description of Control Equipment
Ra	[ ] Attached, Document ID: [ ] Not Applicable [ ] Waiver Requested ghouse Manufacturer: Industrial Air Products, Inc.
	odel Number: 660 B95 CL3 ARR 1W
4.	Description of Stack Sampling Facilities
	[ ] Attached, Document ID: [✓] Not Applicable [ ] Waiver Requested
5.	Compliance Test Report
	[ ] Attached, Document ID:
	[   Previously submitted, Date: 11/29/2000 (Method 9 Test Report)
	[ ] Not Applicable
6.	Procedures for Startup and Shutdown
	[ ] Attached, Document ID: [ \sqrt{]} Not Applicable [ ] Waiver Requested
7.	Operation and Maintenance Plan
	[ ] Attached, Document ID:[ \( \sigma \)] Not Applicable [ ] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[ ] Attached, Document ID:[✓] Not Applicable
9.	Other Information Required by Rule or Statute
	[ ] Attached, Document ID:[ \(  \)] Not Applicable
10	. Supplemental Requirements Comment:

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### Emissions Unit Informa. n Section 1 of 2

## Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation				
[ ] Attached, Document ID: [✓] Not Applicable				
12. Alternative Modes of Operation (Emissions Trading)				
[ ] Attached, Document ID: [ ] Not Applicable				
13. Identification of Additional Applicable Requirements				
[ ] Attached, Document ID: [  ] Not Applicable				
14. Compliance Assurance Monitoring Plan				
[ ] Attached, Document ID: [ ] Not Applicable * Baghouse/dust				
collection systems will be operated in accordance with manufacturers' recommendations and				
compliance will be demonstrated by Method 22 periodic visual emission observations.				
15. Acid Rain Part Application (Hard-copy Required)				
[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))				
Attached, Document ID:				
[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)				
Attached, Document ID:				
[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)				
Attached, Document ID:				
[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)				
Attached, Document ID:				
[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)				
Attached, Document ID:				
[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)				
Attached, Document ID:				
[✓] Not Applicable				

### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

# A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

### **Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)				
[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).				
[ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.				
[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.				
2. Regulated or Unregulated Emissions Unit? (Check one)				
<ul><li>[✓] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</li></ul>				
[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.				
2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):  Application of various toners, stains, sealers, and top-coatings to wood components in several finishing booths. Curing ovens will also be included as part of the finishing operations. Also, glue/adhesives will be applied to the wood components during the manufacturing process.				
4. Emissions Unit Identification Number: [ ] No ID [ ] ID Unknown				
5. Emissions Unit Startup Status Code: Date: Group SIC Code: 24  7. Emissions Unit Major Group SIC Code: [ ]				
9. Emissions Unit Comment: (Limit to 500 Characters)				

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### Emissions Unit Informa. a Section: 2 of 2

### **Emissions Unit Control Equipment**

Emissions only conviol Equipment			
1. Control Equipment/Method Description (Limit to 200 characters per device or method):			
N/A			
•••			
2. Control Device or Method Code(s):			

### **Emissions Unit Details**

1.	Package Unit: N/A			
	Manufacturer:	Model Number:		
2.	Generator Nameplate Rating:	MW		
3.	Incinerator Information:			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
	Incinerator Afterburner Temperature:		°F	

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# B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

### **Emissions Unit Operating Capacity and Schedule**

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	hput Rate: 301 lb VOC/hr; 247 tons V	OC/yr
4.	Maximum Production Rate:	193 cabinets/hour; 910,000 cabinets/y	r
5.	Requested Maximum Operati	ng Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year

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# C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

### **List of Applicable Regulations**

	<u> </u>
40 CFR 63, Subpart JJ (Wood Furniture NESHAP)	
·	
/	

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Emissions Unit Information Section: 2 of 2

# D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

## **Emission Point Description and Type**

1. Identification of Point on Pl Flow Diagram? See flow	2. Emission Po	oint Type Code: 3			
Attachment A					
3. Descriptions of Emission Po	ints Comprising	this Emissions U	Init for VE Tracking (	limit to	
100 characters per point):					
The application of finishing materials will be conducted in several spray booths. Fumes from the spray booths will be vented to the atmosphere by a series of exhaust fans through a series of exhaust stacks. Fumes from the application of glues/adhesives will be vented through building vents.					
Stack parameter information for					
4. ID Numbers or Descriptions	of Emission Un	its with this Emis	ssion Point in Commo	n:	
N/A					
5. Discharge Type Code:	6. Stack Heig	ht:	7. Exit Diameter:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
V	_	feet	1.75 feet		
•					
8. Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
ambient	Rate: appre	ox. 6,000-	•	%	
	8,000 cfm p				
11. Maximum Dry Standard Flo			nission Point Height:		
•	dscfm			feet	
13. Emission Point UTM Coord	linates:				
Zone: E	ast (km):	Nort1	h (km):		
			(KIII).	····	
14. Emission Point Comment (limit to 200 characters):					
-					

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Emissions Unit Informa...a Section: 2 of 2

# E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1 Segment Description (Process/Eyel Tyres) (limit to 500 characters):				
1. Segment Description (Process/Fuel Type) (limit to 500 characters):				
Application of various finishing	ng materials and g	glue/adhesives t	o wood components.	
2. Source Classification Code	e (SCC):	3. SCC Units:		
4-02-021-01,05,06,08		Tons	solvent in coatings	
4. Maximum Hourly Rate:		Annual Rate:	6. Estimated Annual Activity	
0.15 tons/hr (see below)	247 tons/yr		Factor: N/A	
7. Maximum % Sulfur: N/A	8. Maximum % N/A	% Ash:	9. Million Btu per SCC Unit: N/A	
10. Segment Comment (limit	to 200 characters)	):		
VOC (solvent) in the coatings,	finishing materia	als and glue adh	vill correspond to the amount of esives. 301 lbs (0.15 tons) of y and annual rates, respectively.	
Segment Description and Ra	te: Segment	of		
1. Segment Description (Process/Fuel Type) (limit to 500 characters):				
2 Source Classification Code	(SCC)·	3. SCC Units	g.•	
2. Source Classification Code (SCC):  3. SCC Units:		· .		
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:	
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):				
	Ź		i	
			-	

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# F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
VOC, HAPS	N/A	N/A	EL
	· · · · · · · · · · · · · · · · · · ·		
_			

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### Emissions Unit Informa... a Section 2 of 2

### Pollutant Detail Information Page 1 of 1

# G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

### **Potential/Fugitive Emissions**

1. Pollutant Emitted:	2. Total Percent Efficiency of	Control:	
VOC, HAPS	0 %		
3. Potential Emissions:	1 -	ynthetically	
301 lb/hr 247 ton	s/yr L1	imited? [✓]	
5. Range of Estimated Fugitive Emissions:			
	to tons/year	•	
6. Emission Factor: N/A	7. Er	missions	
Reference:	M	lethod Code: 2	
8. Calculation of Emissions (limit to 600 chara	cters):		
See Attachment B for detailed emission calculations			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			
Emissions limited based on maximum expected material usage rates of 301 lb VOC/hr and 247 tons VOC/yr.			

### Allowable Emissions:

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable			
RULE, ESCPSD	Emissions:			
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
0.8 lb VHAP/lb solids average across all coatings and 0.2 lb VHAP/lb solids for contact adhesives (40 CFR 63, Subpart JJ)	301 lb/hr 247 tons/yr			
5. Method of Compliance (limit to 60 characters):				
Maintain records of material usage information.				
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):				

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# H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

### Visible Emissions Limitation: N/A

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:			
			[ ]	Rule [	] Other
3.	Requested Allowable Opacity:				
	Normal Conditions: % Ex	сер	tional	Conditions:	<b>%</b>
	Maximum Period of Excess Opacity Allowe	ed:			min/hour
<u> </u>					
3.	Method of Compliance:				
	Wisible Emissions Comment (limit to 200 o	h a ma	otoro)		
5.	Visible Emissions Comment (limit to 200 cl	пага	ciers	):	
					· · · · · · · · · · · · · · · · · · ·
	I. CONTINUOUS MO	NIT	OR	INFORMATION	•
	(Only Regulated Emissions Units	Sul	oject	to Continuous Mo	nitoring)
Continuous Monitoring System: Continuous Monitor: N/A					
1.	Parameter Code:	2.	Poll	utant(s):	
3.	CMS Requirement:	[	] Rı	ıle [ ]	Other
4.	Monitor Information:				
J	Manufacturer:				
	Model Number:		Ç	Serial Number:	
5.	Installation Date:	6.	Perf	ormance Specificat	ion Test Date:
7.	Cartinuous Maritar Comment (limit to 200				
/ ·	Continuous Monitor Comment (limit to 200	CHa	uacie	18).	

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# J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

## **Supplemental Requirements**

1.	1. Process Flow Diagram						
	[ Attached, Document ID: see Attachment A [ ] Not Applicable [ ] Waiver Requested						
2.	Fuel Analysis or Specification						
	[ ] Attached, Document ID: [ \sqrt{]} Not Applicable [ ] Waiver Requested						
3.	Detailed Description of Control Equipment						
	[ ] Attached, Document ID: [ \sqrt{]} Not Applicable [ ] Waiver Requested						
4.	Description of Stack Sampling Facilities						
	[ ] Attached, Document ID: [ \sqrt{]} Not Applicable [ ] Waiver Requested						
5.	Compliance Test Report						
	[ ] Attached, Document ID:						
	[ ] Previously submitted, Date:						
	[✓] Not Applicable						
6.	Procedures for Startup and Shutdown						
	[ ] Attached, Document ID: [✓] Not Applicable [ ] Waiver Requested						
7.	Operation and Maintenance Plan						
	[ ] Attached, Document ID: [ ] Not Applicable [✓] Waiver Requested						
The facility has prepared and maintains a work practice implementation plan as required by 40							
	R 63, Subpart JJ.						
8.	Supplemental Information for Construction Permit Application						
	[ ] Attached, Document ID:[ \(  \)] Not Applicable						
9.	Other Information Required by Rule or Statute						
	[ ] Attached, Document ID:[ \( \sigma \)] Not Applicable						
10. Supplemental Requirements Comment:							

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## Emissions Unit Information Section 2 of 2

## Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation						
[ ] Attached, Document ID: [ \sqrt{]} Not Applicable						
12. Alternative Modes of Operation (Emissions Trading)						
[ ] Attached, Document ID: [ \( \sigma \)] Not Applicable						
13. Identification of Additional Applicable Requirements						
[ ] Attached, Document ID: [ ] Not Applicable						
14. Compliance Assurance Monitoring Plan						
[ ] Attached, Document ID: [ ] Not Applicable * Compliance with HAP						
emission limits will be based on material usage tracking software. See Attachment C for						
example report.						
15. Acid Rain Part Application (Hard-copy Required)						
[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:						
[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:						
[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:						
[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:						
[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:						
[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:						
[✓] Not Applicable						

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ATTACHMENT A

**Process Description** 

### PROCESS DESCRIPTION

The proposed wood cabinet manufacturing facility includes two primary processing areas: woodworking and finishing. A process flow diagram for the facility operations is shown in Figure 1.

The woodworking operations consist of machinery used to form wood cabinet and frame components from previously milled wood. The woodworking machinery includes equipment such as saws, borers, routers, and shaping and carving machines. After the machining operations, the wood parts are glued to form panels, frames, and doors in a component assembly process. Then the wood parts are exposed to a variety of sanding operations prior to the application of finishing materials. A wood dust collection system is employed for removing dust and chips from the processing operations described above. The dust collection system configuration consists of rigid ductwork from each dust generating equipment unit connected to common fabric filter baghouses. Exhaust from the baghouses is normally returned to the manufacturing building but can also be vented to the atmosphere via exhaust stacks.

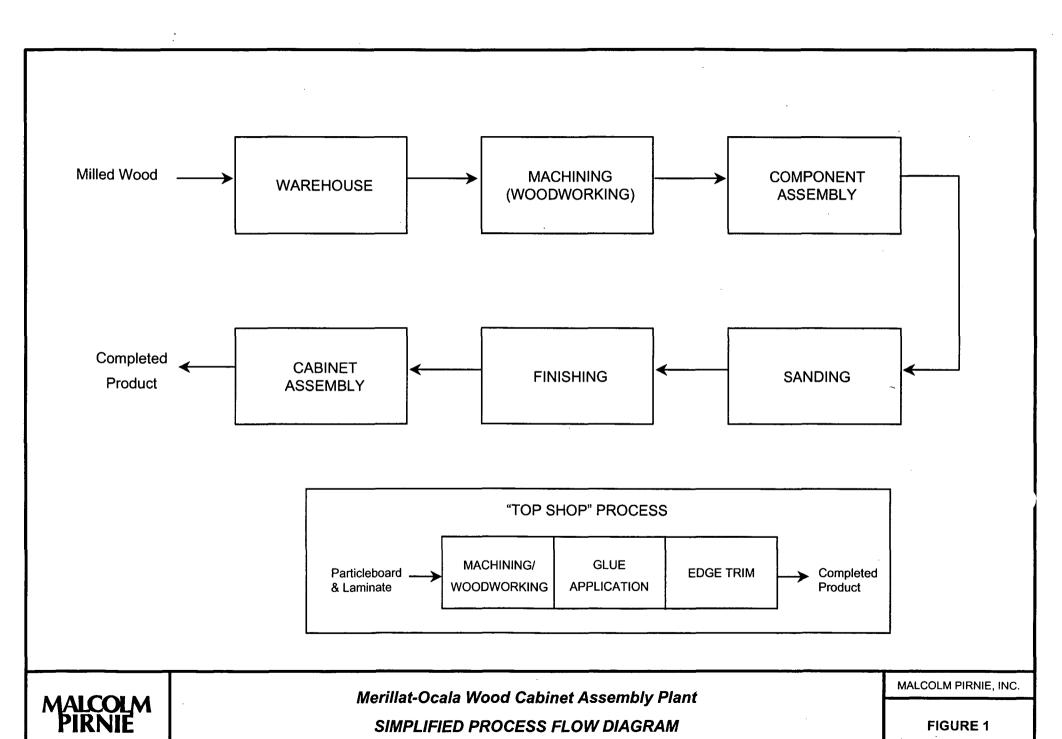
The wood cabinet parts finishing system consists of a series of application spray booths, flash areas, brush and wipe sanding stations, and curing ovens. These processes are connected by an overhead conveyor system that continually moves the parts through the application and process steps. The process begins with the cabinet parts, such as doors, drawer fronts, and frames, being hung on an overhead conveyor with the use of specially designed hooks. The first on-line operation is a wiping or brushing process to clean the product prior to the first coating step. This operation, depending on line speed, is either manual or automated with the use of a light brush and vacuum system. A small dust collection device is used for dust collection with air returned to the manufacturing building. Next, toner is applied manually by operators using hand held high volume low-pressure (HVLP) spray guns. Toner is applied only to a small percentage of products to achieve certain colors or to harmonize the color of the wood. Also, stain is applied manually by operators again using HVLP spray guns in back-to-back spray booths. Stain is applied to approximately two-thirds of the product finished as required to change the

color of the wood. The stained product proceeds to a wiping area where the parts are hand wiped to achieve the desired consistent color. After wiping, the stained parts enter a low temperature oven operated in the range of 150 degrees Fahrenheit to thoroughly dry the stain.

A clear coat sealer is then applied manually by operators using HVLP or air assisted airless (or equivalent) spray guns in back-to-back spray booths. The clear coat sealer is applied to all products to seal the porosity of the wood. The clear coat sealed parts are allowed to flash in a ventilated flash area and then enter an oven where the clear coat is cured. After a short cool down period, the parts are sent to a sealer sand area for light sanding to remove any raised grain. Here the parts are inspected and readied for the application of the final clear topcoat. The dust generated by the sanding operation is collected by a small dust collection system with the air returned to the finishing room.

The parts then enter the last finishing process: the application of the clear topcoat. The topcoat is applied manually by operators using HVLP or air assisted airless (or equivalent) spray guns in back-to-back spray booths. The top-coated parts are allowed to flash in a ventilated flash area and then enter an oven where the topcoat is cured. The parts are allowed to cool on-line for a short time prior to being moved to the cabinet assembly area where final products are assembled.

Additional off-line spray booths are also be required for touch-up and repair, special parts or products, or special colors. Generally, these systems are not conveyorized and parts are moved manually to the off-line ovens, sanding, or wiping areas. Also, a separate "top-shop" side operation is used to produce laminated cabinet tops. This operation includes machining operations, glue application, and a final edge trim step. Particulate matter emissions generated from the machining operations are controlled by a small dust collection system with air returned to the manufacturing building.



### ATTACHMENT B

**Emission Calculations** 

# Emission Summary Merillat Corporation - Ocala Facility

<b>Emission Unit</b>	Process/Emission Activity	Maximum Expected Emissions, tons/year					
ID Number		voc	HAP*	TSP/PM <sub>10</sub>			
	Woodworking/Machining			0.65			
1	Brushing			0.077			
	Light Sanding			0.15			
	Top-Shop Woodworking/Machining			0.28			
	Finishing Material Application	236	236				
2	Hard Glue Application	0.051	0.003				
	Label Glue Application	0.028	0.028				
	Top-Shop Glue Application	11	11				
	Facility Totals	247.1	247.0	1.2			

<sup>\*</sup> Facility will comply with VHAP emission standards & work practice standards prescribed by the Wood Furniture NESHAP.

PROCESS: Machining (Woodworking Operations) POLLUTANT: Particulate Matter (TSP/PM<sub>10</sub>)

**EQUIPMENT:** Miscellaneous woodworking equipment

Woodworking equipment and machinery including various wood sawing, sanding, and fabrication equipment will be used to form the wood cabinet components. Emissions of particulate matter from the woodworking operations will be controlled by a baghouse system operating at an estimated control efficiency of 99.9 percent.

#### **Proposed Operating Data**

Maximum annual production Maximum hourly production

Estimated amount of material wasted

Material weight per board foot

Dust collector design control efficiency

= 910,000 cabinets/yr

= 193 cabinets/hr

= 4.8 board ft/cabinet (includes chop waste, molding & sanding waste)

= 3.7 lb/board ft

Estimated particulate portion of wasted material = 8 % (percentage to dust collector) = 99.9 %

### Maximum Expected TSP/PM<sub>10</sub> Emissions

Hourly Emissions:

Waste material generated

= 193 cabinets/hr x 4.8 board ft/cabinet x 3.7 lb/board ft

= 3,428 lb/hr

Hourly particulate emissions

 $= 3,428 \text{ lb/hr} \times 0.08 \times (1 - 0.999)$ 

= 0.27 lb/hr

Annual Emissions:

Waste material generated

= 910,000 cabinets/yr x 4.8 board ft/cabinet x 3.7 lb/board ft

= 16,161,600 lb/yr

Annual particulate emissions

=  $16,161,600 \text{ lb/yr} \times 0.08 \times (1 - 0.999) \times \text{ton/2,000 lb}$ 

= 0.65 tons/yr

PROCESS: Brushing

POLLUTANT: Particulate Matter (TSP/PM<sub>10</sub>)

EQUIPMENT: Manual or automated brushing system

During the finishing operation, the wood cabinet components will be lightly brushed prior to the application of the first coating. Emissions of particulate matter from this operation will be controlled by a baghouse dust collection system operating at an estimated control efficiency of 99 percent. The baghouse system will vent inside the manufacturing building.

#### **Proposed Operating Data**

Maximum annual cabinet production Maximum hourly cabinet production Cabinet size (wood surface area)

Wood removed from surface

Density of wood Control efficiency = 910,000 cabinets/yr = 193 cabinets/hr = 16.25 ft<sup>2</sup> per cabinet

= 0.00025 inch =  $50 \text{ lb/ft}^3$ = 99 %

#### Maximum Expected TSP/PM<sub>10</sub> Emissions

#### Hourly emissions:

Wood volume removed

= 193 cabinets/hr  $\times$  16.25 ft<sup>2</sup>  $\times$  0.00025 inch  $\times$  ft/12 inches

 $= 0.07 \text{ ft}^3/\text{hr}$ 

Hourly particulate emissions

=  $0.07 \text{ ft}^3/\text{hr} \times 50 \text{ lb/ft}^3 \times (1 - 0.99)$ 

= 0.04 lb/hr

Annual emissions:

Wood volume removed

= 910,000 cabinets/yr  $\times$  16.25 ft<sup>2</sup>/cabinet  $\times$  0.00025 inch  $\times$  ft/12 inches

 $= 308 \, \text{ft}^3/\text{yr}$ 

Annual particulate emissions

=  $308 \text{ ft}^3/\text{yr} \times 50 \text{ lb/ft}^3 \times (1 - 0.99) \times \text{ton/2,000 lb}$ 

= 0.077 ton/yr

PROCESS: Sanding

POLLUTANT: Particulate Matter (TSP/PM<sub>10</sub>)

EQUIPMENT: Manual or automated sanding system

During the finishing operation, the wood cabinet components will be sanded prior to the application of the final topcoat. Emissions of particulate matter from this operation will be controlled by a baghouse dust collection system operating at an estimated control efficiency of 99 percent. The baghouse system will vent inside the manufacturing building.

#### Proposed Operating Data

Maximum annual cabinet production

Maximum hourly cabinet production Cabinet size (wood surface area)

Wood removed from surface

Density of wood Control efficiency = 910.000 cabinets/vr

= 193 cabinets/hr

=  $16.25 \text{ ft}^2 \text{ per cabinet}$ 

= 0.0005 inch

 $= 50 \, lb/ft^3$ 

= 99 %

#### Maximum Expected TSP/PM<sub>10</sub> Emissions

#### Hourly emissions:

Wood volume removed

= 193 cabinets/hr  $\times$  16.25 ft<sup>2</sup>  $\times$  0.0005 inch  $\times$  ft/12 inches

 $= 0.13 \text{ ft}^3/\text{hr}$ 

Hourly particulate emissions

=  $0.13 \text{ ft}^3/\text{hr} \times 50 \text{ lb/ft}^3 \times (1 - 0.99)$ 

= 0.065 lb/hr

Annual emissions:

Wood volume removed

= 910,000 cabinets/yr  $\times$  16.25 ft<sup>2</sup>/cabinet  $\times$  0.0005 inch  $\times$  ft/12 inches

 $= 616 \text{ ft}^3/\text{yr}$ 

Annual particulate emissions

=  $616 \text{ ft}^3/\text{yr} \times 50 \text{ lb/ft}^3 \times (1 - 0.99) \times \text{ton/2,000 lb}$ 

= 0.15 ton/yr

PROCESS: "Top Shop" Machining

POLLUTANT: TSP/PM<sub>10</sub>

EQUIPMENT: Miscellaneous woodworking equipment

As part of the "top shop" operations, machining or woodworking equipment will be used to form the cabinet tops. Emissions of particulate matter from this processing will be controlled by a baghouse dust collector.

#### **Proposed Operating Data**

Maximum annual throughput

= 260,000 lineal ft/yr

Maximum hourly throughput

= 300 lineal ft/hr

Material density

 $= 42 \, lb/ft^3$ 

Material removed (dimensions of cut)

= 8 ft of 1/8 inch x 3/4 inch per lineal ft

Dust collector design control efficiency = 99 %

#### Maximum Expected TSP/PM<sub>10</sub> Emissions

Estimated hourly emissions

= 300 lin ft/hr x 8 ft/ft x  $(1/8 \text{ in x } 3/4 \text{ in})x \text{ ft}^2/144 \text{ in}^2 x 42 \text{ lb/ft}^3 x (1 - 0.99)$ 

= 0.66 lb/hr

Estimated annual emissions

=  $260,000 \ln \frac{\text{ft}}{\text{yr}} \times 8 \frac{\text{ft}}{\text{ft}} \times (1/8 \ln x \frac{3}{4} \ln x \frac{3}{4} \ln x \frac{42 \ln \frac{1}{4}}{144 \ln^2 x 42 \ln \frac{1}{4}} \times (1 - 0.99)$ 

= 569 lb/yr x ton/2,000 lb

= 0.28 ton/yr

PROCESS: Application of toners, stains, sealers, and topcoats

POLLUTANT: VOCs, HAPs

EQUIPMENT: Finishing booths, spray guns, storage area, and curing ovens

Various toners, stains, sealers, and topcoats will be applied to the wood cabinet parts in several finishing booths. The application will be done manually by operators using hand held HVLP or air assisted airless (or equivalent) spray guns. The finishing operations will generate emissions of VOCs and HAPs.

#### **Proposed Operating Data**

Maximum hourly production rate

Hourly usage of finishing materials VOC content in finishing materials

Annual VOC throughput in finishing materials

= 193 cabinets per hour

= 47 gallons/hr (maximum)

= 6 lb/gallon (average)

= 472,000 lbs/yr (maximum)

#### Maximum Expected VOC Emissions

Hourly emissions

= 47 gallons/hr × 6 lb VOC/gal

= 282 lb/hr

Annual emissions

 $= 472,000 \text{ lb VOC/yr} \times \text{ton/2,000 lb}$ 

= 236 tons/yr

PROCESS: Component/Cabinet

Assembly

POLLUTANT: VOC, HAP

EQUIPMENT: Hard glue

applicator

In the component and cabinet assembly process, a hard-type glue will be applied to certain wood components.

**Proposed Operating Data** 

Maximum annual material throughput

Maximum hourly material throughput

Material density

VOC content

HAP (vinyl acetate) content

= 24 drums per year (1,320 gallons/yr)

= 2 gallons/hr

= 9.26 lb/gallon

= 0.077 lb VOC/gallon

= 0.005 lb HAP/gallon (vinyl acetate)

**Maximum Expected VOC Emissions** 

Estimated hourly VOC emissions

= 2 gallons/hr x 0.077 lb VOC/gallon

= 0.15 lb/hr

Estimated annual VOC emissions

= 1,320 gallons/yr x 0.077 lb/gallon x ton/2,000 lb

= 0.051 tons/yr

**Maximum Expected HAP Emissions** 

Estimated hourly HAP emissions

= 2 gallons/hr x 0.005 lb VOC/gallon

= 0.01 lb/hr of vinyl acetate

Estimated annual HAP emissions

= 1,320 gallons/yr x 0.005 lb/gallon x ton/2,000 lb

= 0.003 tons/yr of vinyl acetate

PROCESS: Component/Cabinet

POLLUTANT: VOC

**EQUIPMENT:** Label glue

applicator

In the component and cabinet assembly process, a glue material will be used to attach a product label to the products.

Proposed Operating Data

Assembly

Maximum annual material throughput

= 25 drums per year (1,375 gallons/yr)

Maximum hourly material throughput

= 2 gallons/hr

Material density VOC content

= 9.5 lb/gallon = 0.041 lb VOC/gallon

**Maximum Expected VOC Emissions** 

Estimated hourly VOC emissions

= 2 gallons/hr x 0.041 lb VOC/gallon

= 0.082 lb/hr

Estimated annual VOC emissions

= 1,375 gallons/yr x 0.041 lb/gallon x ton/2,000 lb

= 0.028 tons/yr

PROCESS: "Top Shop" Glue

**POLLUTANT: VOC** 

EQUIPMENT: Glue application

station

As part of the "top shop" operations, a glue or adhesive material will be used to attach laminate to the particleboard.

**Proposed Operating Data** 

Application

Maximum annual material throughput

Maximum hourly material throughput

VOC content of material

Material density

= 3,454 gallons/yr

= 3 gallons/hr

= 90 % by weight

= 7 lb/gallon

**Maximum Expected VOC Emissions** 

Estimated hourly VOC emissions

 $= 3 \text{ gal/hr} \times 0.9 \times 7 \text{lb/gal}$ 

= 19 lb/hr

Estimated annual VOC emissions

= 3,454 gal/yr x 0.9 x 7 lb/gal x ton/2,000 lb

= 11 tons/yr

### **ATTACHMENT C**

**Compliance Report & Certification** 

#### COMPLIANCE REPORT AND CERTIFICATION

#### Compliance Report

The Merillat-Ocala facility is operating in compliance with all applicable air quality requirements. For Emissions Unit 1 (woodworking operations), a Method 9 compliance test report dated November 29, 2000 has been submitted to the Florida Department of Environmental Protection. For Emissions Unit 2 (finishing operations), Merillat has developed and maintains a work practice implementation plan in accordance with 40 CFR Subpart 63, Subpart JJ. Also for Emissions Unit 2, a material tracking system (REGMET) has been implemented to quantify and record HAP usage from the application of finishing materials for demonstrating compliance with applicable emission limitations prescribed by 40 CFR 63, Subpart JJ. An example REGMET report is included on the following page.

#### **Compliance Certification**

Merillat Corporation proposes to submit periodic compliance certification statements annually to the Florida Department of Environmental Protection (DEP) throughout the Title V permit term for the Merillat-Ocala facility.

I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

1 - Daily

Signature

Date

2/26/01

FEB. 19.2001

To-NEWPORT

#### Finishing Emissions AND Product Usage Summary

Product Usage Summary followed by the Chemical Usage and Emission Summary.

Sections Shown: Source; Emissions HAVE NCT been adjusted for Hazardous V/asta entries;

Permit 1D: 0830137-001-AC

Frem 11/1/2000 to 12/31/2000

Merilal-Ocala

Data File: C:\REGMET\DATA\CCALA.MDB

Emission Sources queried in this report's data:

Facility ID	Equipment D	Description	Transfer Efficiency	PM Control Efficiency	VOC Control Efficiency	Control Efficiency	Hours Of Operation
Ocala	epp1	70,000 CFM air make-up system	65.000%	NA	.NA	NA	NA

<sup>\*</sup>Transfer, PN, and VOC Efficiencies apply only to Finishing Sources

<sup>&#</sup>x27;NA Indicates no schedule set up

ApplicationSystemID app1		70,000 <b>CFM</b> air	make-up system									
ApplicationMethod hvlp												
Product Summary: Product ID:	Amount (gal)	Sclids(Lba) Used	Solds(Lbs) Emitted	VOC(Lbs) Used	VOC(Lbs) Em tted	#VOC/ #Solid	VHAP(Its) Used	VHAPS(Its) Emitted	#VHAP /# Solid	HAP(.bs) Used	HAPS(bs) Emitted	
Regular Product Usage		_		-								
371-W6V-734	1,00	0.35	0.12	5.09	5.09	14.45	2.7 <b>E</b> -2	27E-2	0.08	2.7E-2	2.7E-2	80.0
371-W6W-762	48.5	91.9	322	55.3	55.3	0.60	0.13	0.13	o.co	0.13	0.13	0.00
480-X6V-1768	81.0	0	0	559.7	559,7	NA	0	0	NA	0	0	NA
542-D6V-4385	1.00	0.31	0.11	6,21	6.2′	19.73	4.4E-3	4.4E-3	0.01	4.4E-3	4.4E-3	0.01
542-D6V-4386	98.5	60.1	210	598.9	598.9	9.97	12,4	124	0.21	12.5	12.4	0.21
542-W6V-4387	1.00	1.07	0.57	5.93	5. <del>99</del>	5.62	0	Q	0.00	0	0	000
830-50L6V-1824	185.5	536.9	197.9	903.4	903.4	1.68	199.5	199.5	0.37	199.5	199.5	U.37
830-PJ5V-1660	6.98	32.7	114	29.3	29.6	0.90	13.1	13.1	0.40	13.1	13.1	0.40
<u>Total Regular Usage</u>	Total Amounl (gal) 423.4	Total Solids (Lbs)Used 723.4	Total Solids (Lbs)Emitted 253.2	Total VOC (Lbs) Used 2,164.1	Total VOC (Lbs) Emitted 2,164.1	#VOC/ #Solid 2.99	Total VHAP (lbs) Usad 225.2	Total VHAPS (lbs) Emilted 225.2	PAFV# Lilos #\ 16.0	Total HAP (lbs) Used 225.2	Total HAPS (lbs) Emitted 225.2	#HAP/ # Sclid 0.31
Application System Grand Totals;	Total Gallons Usad 423.4	Total Solids (Lbs)Used 723.4	Total Solids (Los) Emitted 253.2	Total VOC (Lbs) Used 2,184.1	Total VOC (Lbs) Emitted 2,164.1	#VOC/ #Solid 2.99	Total VHAP (lbs) Used 225.2	Total VH4PS (lbs) Emitled 225 2	#VHAP # Solid 0.31	Total HAP (lbs) Usec 225.2	Total HAPS (lbs) Emitted 225.2	#HAP/ # Salid 0.31

If you have VOC Control devices, you can use this ratio, Lbs VHAFS Emitted/ Lbs Solids Used: 0.31

Application System Component Summary			Emissions	Emissions	Emissions	HAPS	VHAPS	SARA313
CAS#	Chemical Name	(edl) tesU	Stack (Lbs)	Fugi:lve (Lbs)	Total (Lbs)			

<sup>\*</sup> Total Control Efficiency for Boilers and Wood Dust