

West Virginia Department of Environmental Protection

Division of Air Quality

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

Permit to Modify



R13-2571M

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:

American Woodmark Corporation

South Branch Facility

031-00030

A blue ink signature of William F. Durham, written over a horizontal line.

*William F. Durham
Director*

Issued: June 8, 2015

This permit will supercede and replace Permit R13-2571L issued on December 18, 2012.

Facility Location: Moorefield, Hardy County, West Virginia
Mailing Address: 587 Robert C. Byrd Industrial Park Road, Moorefield, WV 26836
Facility Description: Wood cabinet components manufacturing and finishing
SIC/NAICS Codes: 2434/337110
UTM Coordinates: 677.733 km Easting • 4,327.129 km Northing • Zone 17
Latitude/Longitude: 39.07518, -78.94541
Permit Type: Modification
Desc. of Change: Addition of: one (1) woodworking operation (with 21 woodworking machines and two (2) baghouses) and one (1) new finishing line (with 23 finishing machines, one (1) baghouse, and one (1) regenerative thermal oxidizer (RTO)). Proposed increase in throughputs of water-solvent recovery still and manual spray booth.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement date of any operation authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

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1.0 Emission Units

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
Woodworking Operations (PM Sources)				
Mill Area	E1, E2, E3, E6	Mill Area Equipment	2004	BH1 - BH4
Dust-A1.1	E7/E8	Rotary Sanding Machine	2004	BH5/BH6
Dust-A1.2	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A2.1	E7/E8	Rotary Sanding Machine	2004	BH5/BH6
Dust-A2.2	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A3.1	E7/E8	Rotary Sanding Machine	2004	BH5/BH6
Dust-A3.2	E7/E8	Manual Sanding Conveyor	2004	BH5/BH6
Dust-A3.3	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A4.1	E7/E8	Manual Sanding Conveyor	2004	BH5/BH6
Dust-A4.2	E7/E8	Manual Sanding Conveyor	2004	BH5/BH6
Dust-A4.3	E7/E8	Manual Sanding Conveyor	2004	BH5/BH6
Dust-A4.4	E7/E8	Rotary Sanding Conveyor	2004	BH5/BH6
Dust-A4.5	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A5.1	E7/E8	Rotary Sanding Machine	2004	BH5/BH6
Dust-A5.2	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A6.1	E7/E8	Rotary Sanding Machine	2004	BH5/BH6
Dust-A6.2	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A7.1	E7/E8	Rotary Sanding Machine	2004	BH5/BH6
Dust-A7.2	E7/E8	Manual Sanding Conveyor	2004	BH5/BH6
Dust-A7.3	E7/E8	Panel Cleaning Machine	2004	BH5/BH6
Dust-A8.1	E7/E8	Unisander	2013	BH5/BH6
Dust-A8.2	E7/E8	Roba Tech t-1300/D1	2013	BH5/BH6
Dust-B1.1	E7/E8	Wide Belt Sanding Machine	2004	BH5/BH6
Dust-B1.2	E7/E8	Denibbing Machine	2004	BH5/BH6
Dust-B2.1	E7/E8	Denibbing Machine	2004	BH5/BH6
Dust-B3.1	E7/E8	Denibbing Machine	2004	BH5/BH6
Dust-B4.1	E7/E8	Denibbing Machine	2004	BH5/BH6
Dust-MA1	E17/E18	Vollmer Auto Precision Grinder	2013	BH7/BH8

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
Dust-MA2	E17/E18	Framestock Notcher	2013	BH7/BH8
Dust-MA3	E17/E18	Koch Sprint PTP	2013	BH7/BH8
Dust-MA4	E17/E18	Koch Dowel Machine	2013	BH7/BH8
Dust-MA5	E17/E18	Koch Stile #2	2013	BH7/BH8
Dust-MA6	E17/E18	CNC Two Spindle Insert Shaper	2013	BH7/BH8
Dust-MA7	E17/E18	CNC Router-Expedite Cell	2013	BH7/BH8
Dust-MA8	E17/E18	Cutter & Tool Grinder - Cinci	2013	BH7/BH8
Dust-MA9	E17/E18	Forest City Cluster Drill	2013	BH7/BH8
Dust-MA10	E17/E18	OMGA T50 350 Miter Saw S/Bed	2013	BH7/BH8
Dust-MA11	E17/E18	Fletcher Trim/Shape Sander	2013	BH7/BH8
Dust-MA12	E17/E18	Diehl Rip Saw	2013	BH7/BH8
Dust-IL1	E17/E18	Heismen Polisher	2013	BH7/BH8
Dust-IL2	E17/E18	Miscellaneous Sander	2013	BH7/BH8
Dust-IL3	E17/E18	Door Insert Machine	2013	BH7/BH8
Dust-IL4	E17/E18	Panel Shaper	2013	BH7/BH8
Dust-IL5	E17/E18	CNC	2013	BH7/BH8
Dust-IL6	E17/E18	Door Finisher	2013	BH7/BH8
AWC-001	E17 - E20	Panel Saw	2015	BH7 - BH10
AWC-002	E17 - E20	Panel Saw	2015	BH7 - BH10
AWC-003	E17 - E20	Paul Saw	2015	BH7 - BH10
AWC-004	E17 - E20	Planer	2015	BH7 - BH10
AWC-005	E17 - E20	Moulder	2015	BH7 - BH10
AWC-006	E17 - E20	Cope-Model PS Double End	2015	BH7 - BH10
AWC-007	E17 - E20	Voorwood	2015	BH7 - BH10
AWC-008	E17 - E20	RFID	2015	BH7 - BH10
AWC-009	E17 - E20	RFID	2015	BH7 - BH10
AWC-010	E17 - E20	P5 Equalizer	2015	BH7 - BH10
AWC-011	E17 - E20	P5 Set	2015	BH7 - BH10
AWC-013	E17 - E20	P5 Set	2015	BH7 - BH10
AWC-015	E17 - E20	P2 Equalizer	2015	BH7 - BH10

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
AWC-016	E17 - E20	P5 Set	2015	BH7 - BH10
AWC-018	E17 - E20	P5 Set	2015	BH7 - BH10
AWC-019	E17 - E20	4 Head Back Sander	2015	BH7 - BH10
AWC-020	E17 - E20	5 Head Top Sander	2015	BH7 - BH10
AWC-021	E17 - E20	5 Head Top Sander	2015	BH7 - BH10
AWC-022	E17 - E20	4 Head Back Sander	2015	BH7 - BH10
AWC-023	E17 - E20	Miter Saw	2015	BH7 - BH10
AWC-024	E17 - E20	Chop Saw	2015	BH7 - BH10
AWC-023	E22	Sander/Cleaner	2015	BH11
AWC-043	E22	Hand Sand Conveyor/With Suction	2015	BH11
AWC-041	E22	Sander/Cleaner	2015	BH11
AWC-052	E22	Hand Sand Conveyor/with Suction	2015	BH11
AWC-051	E22	Sander/Denibber	2015	BH11
AWC-053	E22	Hand Sand Conveyor/with Suction	2015	BH11
Finishing Equipment (VOC Sources)				
VOC-A1.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A1.2	E9/E10/E22	Stain Wiping Machine	2004	RTO1 - RTO3
VOC-A1.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A1.4	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A1.5	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A2.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A2.2	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A2.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A2.4	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A3.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A3.2	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A3.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A3.4	E9/E10/E22	Oven	2004	RTO1 - RTO3

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
VOC-A3.5	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A3.6	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A4.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A4.2	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A5.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A5.2	E9/E10/E22	Stain Wiping Machine	2004	RTO1 - RTO3
VOC-A5.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A5.4	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A5.5	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A6.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A6.2	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A6.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A6.4	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A7.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A7.2	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A7.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A7.4	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A7.5	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A8.1	E9/E10/E22	Preheater included with Automatic Spray Machine w/ Belt Cleaning System	2004	RTO1 - RTO3
VOC-A8.2	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A8.3	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A8.4	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A8.5	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A8.6	E9/E10/E22	Oven	2004	RTO1 - RTO3
VOC-A8.7	E9/E10/E22	Oven Cooling	2004	RTO1 - RTO3
VOC-A8.8	E9/E10/E22	Oven Cooling	2004	RTO1 - RTO3

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
VOC-A8.9	E9/E10/E22	Oven Cooling	2004	RTO1 - RTO3
VOC-B1.1	E9/E10/E22	Automatic Robotic Spray Machine	2004	RTO1 - RTO3
VOC-B1.2	E9/E10/E22	Hot Air Flash Tunnel with Recycle	2004	RTO1 - RTO3
VOC-B1.3	E9/E10/E22	Hot Air Flash Tunnel with Recycle	2004	RTO1 - RTO3
VOC-B2.1	E9/E10/E22	Automatic Robotic Spray Machine	2004	RTO1 - RTO3
VOC-B2.2	E9/E10/E22	Hot Air Flash Tunnel with Recycle	2004	RTO1 - RTO3
VOC-B2.3	E9/E10/E22	Hot Air Flash Tunnel with Recycle	2004	RTO1 - RTO3
VOC-B3.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B3.2	E-B3	UV Oven UV 2000	2004	None
VOC-B3.3	NA	N.2 Roll Coater Machine	2004	None
VOC-B3.4	E-B3	UV Oven UV 2000	2004	None
VOC-B4.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B4.2	NA	N.2 Roll Coater Machine	2004	None
VOC-B4.3	E9/E10/E22	Jet Nozzles Oven with Infrared Lamps	2004	RTO1 - RTO3
VOC-B5.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B5.2	NA	N.2 Roll Coater Machine	2004	None
VOC-B5.3	E9/E10/E22	Stain Wiping Machine	2004	RTO1 - RTO3
VOC-B5.4	E9/E10/E22	Hot Air Laminar Oven with Recycle	2004	RTO1 - RTO3
VOC-B5.5	E9/E10/E22	Jet Nozzles Oven with Infrared Lamps	2004	RTO1 - RTO3
VOC-B6.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B6.2	E-B6	UV Oven UV 2000	2004	None
VOC-B7.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B7.2	E-B7	UV Oven UV 2000	2004	None
VOC-B8.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B8.2	E-B8	UV Oven UV 2000	2004	None
VOC-B9.1	NA	N.2 Roll Coater Machine	2004	None
VOC-B9.2	E-B9	UV Oven UV 2000	2004	None
VOC-TB1	E9/E10/E22, E12	Paint Spray Booth (vents through E12 when non-VOC containing coatings are sprayed)	2008	RTO1 - RTO3

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
VOC-SB02	E9/E10/E22, E15	Paint Spray Booth (vents through E15 when non-VOC containing coatings are sprayed)	2008	RTO1 - RTO3
VOC-SB03	E9/E10/E22, E16	Paint Spray Booth (vents through E16 when non-VOC containing coatings are sprayed)	2008	RTO1 - RTO3
AWC-060	E9/E10/E22	Air Blades Cooling	2015	RTO1 - RTO3
AWC-024	E9/E10/E22	IR Preheat	2015	RTO1 - RTO3
AWC-025	E9/E10/E22	Spray Machine	2015	RTO1 - RTO3
AWC-026	E9/E10/E22	Hand Wiping Conveyor/With Suction	2015	RTO1 - RTO3
AWC-027	E9/E10/E22	Hand Wiping Conveyor/With Suction	2015	RTO1 - RTO3
AWC-029	E9/E10/E22	Two Chamber Vertical Oven	2015	RTO1 - RTO3
AWC-032	E9/E10/E22	High Velocity IR Oven	2015	RTO1 - RTO3
AWC-035	E9/E10/E22	UVR M2 UV Oven	2015	RTO1 - RTO3
IR.Preheat	E9/E10/E22	IR.Preheat	2015	RTO1 - RTO3
AWC-045	E9/E10/E22	Spray Machine	2015	RTO1 - RTO3
AWC-047	E9/E10/E22	Two Chamber Vertical Oven	2015	RTO1 - RTO3
AWC-049	E9/E10/E22	High Velocity IR Oven	2015	RTO1 - RTO3
<u>Boilers and Engines</u>				
B4	E-B4	1.22 MMBTU/hr Natural Gas Fired Auxiliary Boiler		None
B1	E4	28.8 MMBTU/hr Wood Fired Boiler	2004	C1
B2	E5	20.9 MMBTU/hr Natural Gas Fired Boiler	2004	None
FP1	E11	Patterson Model 8x6YSH Fire Pump with Clarke JW6H-UF40 Diesel Engine	2004	None
<u>Miscellaneous Emission Units/Sources</u>				
PR-SS2	Fugitive	Waste Solvent Still	2013	None
S1	E23	Wood Dust Silo #1	2004	BV1
SD13	E13	Sawdust Hopper	2007	None
PR	E11	Pump Room Exhaust	2004/2007	None
<u>Storage Tanks</u>				
T1 - T35	E11	Bulk Storage Tanks (Pump Room)	2004/2007	None

Emission Unit ID	Emission Point ID	Equipment Unit Description	Year Installed	Control Device
<u>Control Devices</u>				
RTO1	E9	Recuperative Thermal Oxidizer (RTO)	2004	APCD
RTO2	E10	RTO	2004	APCD
RTO3	E22	RTO	2015	APCD
BH1	E1	Baghouse 1	2004	APCD
BH2	E2	Baghouse 2	2004	APCD
BH3	E3	Baghouse 3	2004	APCD
BH4	E6	Baghouse 4	2004	APCD
BH5	E7	Baghouse 5	2004	APCD
BH6	E8	Baghouse 6	2004	APCD
BH7	E17	Baghouse 7	2013	APCD
BH8	E18	Baghouse 8	2013	APCD
BH9	E19	Baghouse 9	2015	APCD
BH10	E20	Baghouse 10	2015	APCD
BH11	E22	Baghouse 11	2015	APCD
BV1	E23	Silo Bin Vent	2004	APCD
C1	E4	Multiclone	2004	APCD

2.0. General Conditions

2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments	NO_x	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance Standards
CEM	Continuous Emission Monitor	PM	Particulate Matter
CES	Certified Emission Statement	PM_{2.5}	Particulate Matter less than 2.5µm in diameter
C.F.R. or CFR	Code of Federal Regulations	PM₁₀	Particulate Matter less than 10µm in diameter
CO	Carbon Monoxide	Ppb	Pounds per Batch
C.S.R. or CSR	Codes of State Rules	pph	Pounds per Hour
DAQ	Division of Air Quality	ppm	Parts per Million
DEP	Department of Environmental Protection	Ppmv or ppmv	Parts per million by volume
dscm	Dry Standard Cubic Meter	PSD	Prevention of Significant Deterioration
FOIA	Freedom of Information Act	psi	Pounds per Square Inch
HAP	Hazardous Air Pollutant	SIC	Standard Industrial Classification
HON	Hazardous Organic NESHAP	SIP	State Implementation Plan
HP	Horsepower	SO₂	Sulfur Dioxide
lbs/hr	Pounds per Hour	TAP	Toxic Air Pollutant
LDAR	Leak Detection and Repair	TPY	Tons per Year
M	Thousand	TRS	Total Reduced Sulfur
MACT	Maximum Achievable Control Technology	TSP	Total Suspended Particulate
MDHI	Maximum Design Heat Input	USEPA	United States Environmental Protection Agency
MM	Million	UTM	Universal Transverse Mercator
MMBtu/hr or mmbtu/hr	Million British Thermal Units per Hour	VEE	Visual Emissions Evaluation
MMCF/hr or mmcf/hr	Million Cubic Feet per Hour	VOC	Volatile Organic Compounds
NA	Not Applicable	VOL	Volatile Organic Liquids
NAAQS	National Ambient Air Quality Standards		
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		

2.3. Authority

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*

2.4. Term and Renewal

- 2.4.1. This permit supercedes and replaces previously issued Permit R13-2571L. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

2.5. Duty to Comply

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2571 through R13-2571M and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and 13-10.3]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-4]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-5.4.]

2.10. Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

[45CSR§13-5.1]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation

under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and,
 - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

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

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR§13-10.1]

2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

- 3.2.1. **Emission Limit Averaging Time.** Unless otherwise specified, compliance with all annual limits shall be based on a rolling twelve month total. A rolling twelve month total shall be the sum of the measured parameter of the previous twelve calendar months. Compliance with all hourly emission limits shall be based on the applicable NAAQS averaging times or, where applicable, as given in any approved performance test method.

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15)]

3.4. Recordkeeping Requirements

3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the

permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. *State-Enforceable only.*]

3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304-2345

If to the USEPA:

Associate Director
Office of Air Enforcement and Compliance
Assistance Review (3AP20)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. Operating Fee.

- 3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. Maximum emissions to the atmosphere from Emission Point ID# E4 (Wood Boiler B1) shall not exceed the following limits:

Table 4.1.1.: Wood Boiler B1 Emissions Limits

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
NO _x	13.83	60.57
CO	8.47	37.09
PM	7.06	30.91
SO ₂	0.71	3.09
VOCs	0.48	2.10

4.1.2. Maximum emissions to the atmosphere from Emission Point ID# E5 (Natural Gas Boiler B2) shall not exceed the following limits:

Table 4.1.2.: Natural Gas Boiler B2 Emissions Limits

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
NO _x	2.09	9.16
CO	1.76	7.69
PM	0.16	0.70
SO ₂	0.01	0.05
VOCs	0.11	0.50

4.1.3. Maximum emissions to the atmosphere from Emission Point ID# EB-4 (Natural Gas Fired Auxiliary Boiler B4) shall not exceed the following limits:

Table 4.1.3.: Natural Gas Fired Auxiliary Boiler B4 Emissions Limits

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
NO _x	0.12	0.54
CO	0.10	0.45
PM	0.01	0.04
SO ₂	0.01	0.01
VOCs	0.01	0.03

- 4.1.4. The hourly and annual throughput of wood waste to the 28.8 MMBTU/hr Hurst Boiler and Welding Co. Inc. Wood Boiler (B1), shall not exceed 2,866 lb/hr or 12,553 ton/year.
- 4.1.5. The hourly and annual throughput of natural gas to the 20.9 MMBTU/hr Hurst Boiler (B2), shall not exceed 20,904 cubic feet per hour or 183,115,208 cubic feet per year.
- 4.1.6. The hourly and annual throughput of natural gas to the 1.22 MMBTU/hr Buderus Boiler (B4), shall not exceed 1,220 cubic feet per hour or 10,690,000 cubic feet per year.
- 4.1.7. Wood waste fuel used to fire Wood Boiler B1 shall be stored in an enclosed Storage Silo S1. Emissions from Storage Silo S1 shall be vented to and controlled by Bin Vent/Baghouse (BV1), prior to release to the atmosphere.
- 4.1.8. The stabilized static pressure loss across Bin Vent/Baghouse (BV1) shall remain between 0.5 to 4.0 inches of water anytime BV1 is operating.
- 4.1.9. Emissions from Wood Boiler B1 shall be vented to and controlled by a multicyclone (C1), prior to release to the atmosphere. This control device shall be designed to achieve a minimum guaranteed control efficiency of 80% for particulate matter emissions.
- 4.1.10. The stabilized static pressure loss across the multicyclone (C1) shall not exceed pressure drop of 3.4 inches of water.
- 4.1.11. Maximum particulate matter emissions to the atmosphere from Emission Point ID# E1, E2, E3, E6, E7, E8, E17, E18, E19, E20, and E22 shall not exceed the following limits:

Table 4.1.11.: Baghouse Emission Limits

Emission Point ID#	Source	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
E1	Baghouse 1 (BH1)	0.59	2.60
E2	Baghouse 2 (BH2)	0.59	2.60
E3	Baghouse 3 (BH3)	1.19	5.21
E6	Baghouse 4 (BH4)	1.19	5.21
E7	Baghouse 5 (BH5)	0.37	1.62
E8	Baghouse 6 (BH6)	0.37	1.62
E17	Baghouse 7 (BH7)	4.29	18.77
E18	Baghouse 8 (BH8)	4.29	18.77
E19	Baghouse 9 (BH9)	4.63	20.27
E20	Baghouse 10 (BH10)	4.63	20.27
E22	Baghouse 11 (BH11)	4.63	20.27

- 4.1.12. Baghouses BH1 through BH11 shall be designed to achieve a minimum guaranteed control efficiency of 99.9% for particulate matter emissions.

- 4.1.13. The stabilized static pressure loss across baghouses BH1 through BH11 shall remain between 0.5 to 4.0 inches of water.
- 4.1.14. Maximum amount of wood dust transferred to Silo #1 shall not exceed 18,860 tons per year.
- 4.1.15. Except during startup and shutdown, opacity from Boilers B1 and B2 shall not exceed 10 percent based on a six minute block average. In order to determine compliance with this limit the permittee shall conduct monthly visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for emission point B1. These observations shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, the permittee shall conduct an opacity evaluation in accordance with 40CFR60 Appendix A, Method 9, within 24 hours. A 40CFR60 Appendix A, Method 9 evaluation shall not be required if the visible emission condition is corrected in a timely manner and the units are operated at normal operating conditions with no visible emissions being observed. Records shall be maintained on site reporting the results of each test. Upon observing any visible emissions in excess of twenty percent (20%) opacity, or excess of forty (40%) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, the Company shall submit a written report, certified by a responsible official, to the Director of the Division of Air Quality within five (5) days after taking said reading.
- 4.1.16. Emissions from the combustion of natural gas in the burners and from the combustion of waste hydrocarbons (but not including VOC or HAP pass-through emissions from finishing operations) from each individual RTO (RTO1, RTO2 and RTO3) shall not exceed the following limits:

Table 4.1.16.: Per-RTO Emission Limits

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
CO	6.37	15.66
NO _x	10.46	24.66
PM	0.09	0.39
VOCs	0.06	0.26

- 4.1.17. All Finishing operations, including the use of the spray booths, shall be in accordance with the following:
 - a. Emissions from the emission sources of all Finishing Operations (except for UV coating application and curing and water based paints), shall be vented to and controlled by RTO1, RTO2 or RTO3 prior to release to the atmosphere and shall not exceed the aggregate limits in the following table:

Table 4.1.17(a): Plant-Wide Finishing Operations Emission Limits⁽¹⁾

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
VOCs	104.00	216.56
Total HAPs	21.71	70.00

- b. All finishing lines and spray booths shall meet all applicable requirements given under 40 CFR 63, Subpart JJ including the emission limits under Table 3 of Subpart JJ.
- 4.1.18. RTO1, RTO2 and RTO3 shall be designed to achieve a minimum guaranteed overall destruction efficiency of 95% for Total Volatile Organic Compound (VOC) emissions.
- 4.1.19. RTO1, RTO2 and RTO3 shall maintain a minimum combustion chamber temperature of 1,550°F on a three (3) hour rolling average during hours of production.
- 4.1.20. The capture system pressure loss, defined as the pressure difference between the building and the RTO inlet, shall maintain a minimum pressure drop of 0.004 inches of water based on a three hour rolling average while the plant is in production.
- 4.1.21. All Finishing Operations shall be contained within a capture system that is designed to achieve a minimum guaranteed capture efficiency of 92% for Total Volatile Organic Compound (VOC) emissions.
- 4.1.22. The manual spray paint booth VOC-TB1 shall be designed operated and maintained such that emissions are routed to RTO1, RTO2 or RTO3 unless non-VOC containing coatings are sprayed. Emissions from the manual spray booth, as calculated according to 4.2.3., shall count toward the plant-wide VOC emission limit given under 4.1.26.
- 4.1.23. Spray paint booths VOC-SB02 and VOC-SB03 shall be vented to either RTO1, RTO2 or RTO3 unless non-VOC containing coatings are sprayed. Emissions from these spray booths, as calculated according to 4.2.3., shall count toward the plant-wide VOC emission limit given under 4.1.26.
- 4.1.24. Emissions from the UV Ovens shall not exceed the following limits:

Table 4.1.24.: UV Ovens Emission Limits

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
PM	0.10	0.10
VOCs	0.10	1.0
HAPs	0.10	0.10

- 4.1.25 Emissions from the Pump Room exhaust vent, Emission Point ID# E-11, shall not exceed the following limits:

Table 4.1.25.: Pump Room Exhaust Emission Limits

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
VOCs	1.48	6.4
HAPs	1.48	6.4

- 4.1.26. The aggregate facility emission rate to the atmosphere of Volatile Organic Compounds (VOC) from all sources identified Table 1.0 shall not exceed 249.4 tons per year.

- 4.1.27. Opacity from Boilers B1 and B2 shall not exceed 10 percent based on a six minute block average. For the purpose of determining compliance with the opacity limit set forth in 45CSR§2-3.1. the permittee shall conduct visible emission checks and/or opacity monitoring and recordkeeping for all emission sources subject to an opacity limit. The visible emission check shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40CFR60, Appendix A, Method 22 or from the lecture portion of the 40CFR60, Appendix A, Method 9 certification course.
- 4.1.28. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute average.
[§45-2-3.1.]
- 4.1.29. No person shall cause, suffer, allow, or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined as follows:
- (b) For Type 'b' fuel burning units, the product of 0.09 and the total design heat inputs for such units in million B.T.U.'s per hour, provided however that no more than six hundred (600) pounds per hour of particulate matter shall be discharged into the open air from all such units;
[§45-2-4.1.b.] (B2)
- (c) For Type 'c' fuel burning units, in excess of the values listed in Table 45-2, provided however that no more than three hundred (300) pounds per hour of particulate matter shall be discharged into the open air from all such units.
[§45-2-4.1.c.] (B1)
- 4.1.30. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment efficiency shall be reviewed by the Director. No person shall cause, suffer, allow or permit the addition of sulfur oxides as described above unless written approval for such addition is provided by the Director.
[§45-2-4.4.]
- 4.1.31. At such reasonable times as the Director may designate, the owner or operator of any fuel burning unit may be required to conduct or have conducted tests to determine compliance.
[§45-2-8.1.b.]
- 4.1.32. The owner or operator shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit in a manner to be established by the Director and set forth in an interpretive rule as authorized by W.Va. Code §29A-1-2. Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.
[§45-2-8.3.c.]
- 4.1.33. At all times, including periods of start-ups, shutdowns, and malfunctions, owners and operators shall, to the extent practicable, maintain and operate any fuel burning unit(s) including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.
[§45-2-9.2.]

- 4.1.34. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.
[§45-7-3.1]
- 4.1.35. No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to subsection 5.1 is required to have a full enclosure and be equipped with a particulate matter control device.
[§45-7-3.7]
- 4.1.36. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of this rule.
[§45-7-4.1]
- 4.1.37. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.
[§45-7-5.1]
- 4.1.38. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.
[§45-7-5.2]
- 4.1.39. At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.
[§45-7-8.1]
- 4.1.40. The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.
[§45-7-8.2]
- 4.1.41. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in this rule may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.
[§45-7-9.1]

- 4.1.42. Maximum Allowable Emission Rates for Similar Units in All Priority III Regions Except Region IV. No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:
- (3.3.f) For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.
[§45-10-3.3.3]
- 4.1.43. Unless otherwise approved by the Director, the maximum allowable emission rate for an individual stack shall not exceed by more than twenty-five percent (25%) the emission rate determined by prorating the total allowable emission rate based on the basis of individual unit heat input at design capacity for all fuel burning units discharging through that stack.
[§45-10-3.4.a.]
- 4.1.44. No person shall cause, suffer, allow, or permit, the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in subdivisions 4.1.a. through 4.1.e.
[§45-10-4.1.]
- 4.1.45. At the request of the Director the owner and/or operator of a source shall install such stack gas monitoring devices as the Director deems necessary to determine compliance with the provisions of this rule. The data from such devices shall be readily available at the source location or such other reasonable location that the Director may specify. At the request of the Director, or his or her duly authorized representative, such data shall be made available for inspection or copying. Failure to promptly provide such data shall constitute a violation of this rule.
[§45-10-8.2.a.]
- 4.1.46. At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Secretary thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Secretary may specify shall be conducted to determine compliance.
[§45-13-6.1]
- 4.1.47. The Secretary may suspend or revoke a permit if, after six (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit.
[§45-13-10.2]
- 4.1.48. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W.Va Code § 22-5-5 to show cause why the permit should not be suspended, modified or revoked.
[§45-13-10.3]

- 4.1.49. The facility must develop and implement a written startup, shutdown, and malfunction (SSM) plan for Boiler B1 according to § 63.6(e)(3).
[40 C.F.R. § 63.7505(e) and 45CSR§34-4.1]
- 4.1.50. Boiler B1 must be in compliance with the emission limits (including operating limits) and the work practice standards at all times, except during periods of startup, shutdown, and malfunction. [40 C.F.R. § 63.7505(a) and 45CSR§34-4.1]
- 4.1.51. The facility must always operate and maintain Boiler B1, including air pollution and monitoring equipment according to the provisions in §63.6(e)(1)(i).
[40 C.F.R. §63.7505(b) and 45CSR§34-4.1.1]
- 4.1.52. For boiler B1, the emission rate for the sum of seven selected metals, excluding manganese (Mn) shall not exceed 0.0003 lb per MMBtu of heat input.
[40 C.F.R. §63.7507(b) and 45CSR§34]
- 4.1.53. For boiler B1, the emission rate of manganese (Mn) shall not exceed 0.47 lb per hour.
[40 C.F.R. §63.7507(b) and 45CSR§34]
- 4.1.54. For boiler B1, the emission rate of hydrogen chloride (HCl) shall not exceed 0.02 lb per MMBtu of heat input.
[40 C.F.R. §63.7500(a)(1) and 45CSR§34]
- 4.1.55. For boiler B1, the emission rate of mercury (Hg) shall not exceed 0.000003 lb per MMBtu of heat input.
[40 C.F.R. §63.7500(a)(1) and 45CSR§34]
- 4.1.56. The facility must operate Boiler B1 in accordance with periods of startup, shutdown, and malfunction, and the facility must operate in accordance with the SSM as required in §63.7507(e).
[40 C.F.R. § 63.7540(c) and 45CSR §34-4.1]
- 4.1.57. The facility will use a combination of compliance methods as defined in 40CFR63.804(d)(4) by utilizing a combination of a VHAP averaging, compliant materials and the use of a control system. The unit will maintain compliance with the provisions of 40CFR63 Subpart JJ for training, recordkeeping, monitoring and reporting.
[40CFR63.804(d)(4)]
- 4.1.58. The aggregated volume of all tanks in the pump room shall not exceed 275,000 gallons, nor shall the total VOC and/or HAP emissions from these tanks exceed 6.15 tons per year. Additionally, the volume of any individual tank shall not exceed 19,812 gallons.
- 4.1.59. The total amount of sawdust delivered to hopper S13 shall not exceed 5,000 pounds per hour nor 5,200 tons per year.
- 4.1.60. Use of the waste-solvent recovery (PR-SS2) still shall be in accordance with the following requirements:
- a. The still shall be maintained and operated as a closed system with no direct exhaust of emissions to the atmosphere and cleaning and maintenance of the still shall be performed in such a manner so as to limit the fugitive escape of solvent vapors to 5% or less of the total amount of solvent processed through the still.

- b. Maximum VOC and HAP emissions from the still shall be calculated at a 5% loss rate of the total solvent throughput over any given period of time.
 - c. Maximum throughput of the still shall not exceed 44,940 gallons per year and no solvent shall be processed through the still with greater than 7.17 lb-VOC/gallon or 7.17 lb-HAP/gallon.
 - d. VOC and HAP emissions from the still each shall not exceed 5.37 tons/year and shall count toward the facility-wide VOC limit given under 4.1.26.
- 4.1.61. All use of spray guns in Finishing Line 3 and the manual spray booth shall be designed, operated and maintained so as to achieve a minimum transfer efficiency of 75% of all solids onto the substrate. A capture and control systems shall be designed, operated and maintained so as to direct 100% of the overspray into dry filters that will, at a minimum, capture 99.90% of particulate matter. Emissions of particulate matter from Finishing Line 3 and the manual spray booth from coating operations, as emitted from the RTOs, shall not exceed 0.02 lbs/hour and 0.09 tons/year.
- 4.1.62. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Monitoring Requirements

- 4.2.1. To determine compliance with throughput limits set forth under 4.1.4, 4.1.5, 4.1.6, and 4.1.14, the permittee shall monitor and maintain records of the following:
- a. Monthly wood dust transferred to Silo 1 for demonstrating compliance with 4.1.14.
 - b. Monthly input of wood waste to boiler B1.
 - c. Monthly throughput of natural gas to boiler B2.
 - d. Annual hours of operation of boilers B1 and B2.

These records shall be maintained on-site for a period of five (5) years and certified records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

- 4.2.2. To determine compliance with control device requirements and emissions associated with thereto as given under 4.1., the permittee shall monitor and maintain records of the following:
- a. Weekly observations of delta P across the multicyclone C1 controlling boiler B1.
 - b. Daily observations of delta P across Bin Vent/Baghouse BV1.
 - c. Daily observations of delta P across Baghouses BH1 - BH11.
 - d. Calendar three (3) hour rolling average combustion chamber temperature in RTO1 - RTO3 (during hours of operation).
 - e. Calendar daily average capture system pressure loss, as measured at the inlet of RTO1 - RTO3.
 - f. Weekly visual inspection of dry filters and wet filtration systems to assure proper operation of filtration systems.

These records shall be maintained on-site for a period of five (5) years and certified records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

- 4.2.3. To determine compliance with 4.1.17, 4.1.24, 4.1.26, and 4.1.60, the permittee shall monitor and maintain calendar monthly records of the following:
- a. The monthly hours of operation of all finishing lines, spray booths, and the waste-solvent recovery still.
 - b. The name and identification number of each surface coating, as applied each month and each solvent sent to the waste-solvent recovery still.
 - c. The monthly quantity applied of each coating or solvent material (including solvent sent to the waste-solvent recovery still), as documented in the permittee's coating and solvent usage emission quantification database program.
 - d. The mass of VOC, individual and aggregate HAPs, and solids per volume of each surface coating and solvent material (including solvent sent to the waste-solvent recovery still), as applied each month.
 - e. The actual pounds per month of VOC, individual and aggregate HAPs, and PM emitted from the subject emission points. Pollutant capture and control efficiencies used in the compliance calculations (for this permit only) shall be those minimum values as specified under Section 4.0, Source -Specific Requirements 4.1.18, 4.1.21, and 4.1.60.
 - f. The VOC, individual and aggregate HAPs, and PM emitted for the month shall be divided by the total number of hours the subject emission sources were operated for the given month. The resulting monthly average shall be tabulated as pounds per hour in order to demonstrate compliance with the hourly limits established for the subject emission points.
 - g. The monthly quantity of natural gas fuel consumed by RTO1, RTO2 and RTO3.

These records shall be maintained on-site for a period of five (5) years and certified records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

- 4.2.4. Visible emission checks of Boilers B1 and B2 shall be conducted at least once per calendar month with a maximum of forty-five (45) days between consecutive readings. These checks shall be performed for a sufficient time interval, but no less than one (1) minute, to determine if any visible emissions are present. Visible emission checks shall be performed during periods of normal facility operation and appropriate weather conditions.
- 4.2.5. If visible emissions are present at Boilers B1 and B2 for three (3) consecutive monthly checks, the permittee shall conduct an opacity reading at that emission point using the procedures and requirements of 40CFR60, Appendix A, Method 9 as soon as practicable, but within seventy-two (72) hours of the final visual emission check. A 40CFR60, Appendix A, Method 9 observation restarts the count of the number of consecutive readings with the presence of visible emissions.
- 4.2.6. In order to determine compliance with the emission limits in condition 4.1.58 of this permit the permittee will use TANKS 4.0 in order to perform calculations to determine the VOC and HAP emission rate anytime a change is made to the pump room tanks which may increase emissions.
- 4.2.7. In order to determine compliance with the limits in condition 4.1.59 of this permit the permittee shall monitor and record the amount of sawdust transferred to the hopper on a daily basis.

4.3. Testing Requirements

- 4.3.1. The permitted facility shall comply with 40CFR63.805, Performance Test Methods of 40CFR63 Subpart JJ, "National Emission Standards for Wood Furniture Manufacturing Operations," provided that the permittee shall comply with any more stringent requirements as may be set forth under this permit.
- 4.3.2. For boiler B1, the permittee shall conduct a fuel analysis according to 40 C.F.R. §63.7521 for each type of fuel burned no later than five (5) years after the previous fuel analysis for each fuel type. If the permittee desires to burn a new type of fuel, the permittee shall conduct a fuel analysis before burning the new type of fuel in the boiler. The permittee shall still meet all applicable continuous compliance requirements in §63.7540. [40 C.F.R. §63.7515(f) and 45CSR§34]
- 4.3.3. Within 180 days after initial startup, the permittee shall conduct, or have conducted, a performance test on RTO3 to:
 - a. Determine compliance with the CO and NO_x emission limits given under 4.1.16.;
 - b. Determine compliance with the minimum hydrocarbon destruction efficiency as given under 4.1.18.

These performance tests shall be conducted at a maximum solvent load as reasonably limited by plant design or safety considerations and in accordance with the requirement of 3.3 of this permit. Appropriate EPA Test Methods as outlined in an approved test protocol shall be used.

4.4. Recordkeeping Requirements

- 4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:
 - a. The date, place as defined in this permit and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of the analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.
- 4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
- 4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
 - f. Steps taken to correct the malfunction.
 - g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
- 4.4.4. To determine compliance with 4.1.7, 4.1.8, 4.1.9, 4.1.10, 4.1.12, 4.1.13, 4.1.18, and 4.1.19, any and all malfunctions of the control devices shall be documented in writing, and maintained on-site. The following information must be documented for each malfunction:
- a. The equipment involved in the malfunction and the associated cause.
 - b. Steps taken to correct the malfunction.
 - c. The steps taken to minimize the emissions during the malfunction.
 - d. The duration of the malfunction.
 - e. The increase in emissions during the malfunction.
 - f. Steps taken to prevent a similar malfunction in the future.

These records shall be maintained on-site for a period of five (5) years and certified records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

- 4.4.5. The permittee shall keep records of the type and amount of all fuels burned in boiler B1 during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would either result in lower emission of total selected metals (TSM), hydrogen chloride (HCl), and mercury (Hg), than the applicable emission limit for each pollutant (if the permittee demonstrated compliance through fuel analysis), or result in lower fuel input of TSM, chlorine, and mercury than the maximum values calculated during the last performance tests (if the permittee demonstrates compliance through performance testing). [40 C.F.R. §63.7540(a)(2) and 45CSR34]
- 4.4.6 The permittee shall keep records of the calculations required by condition 4.2.6 of this permit. These records shall be maintained on-site for a period of five (5) years and certified records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

4.5. Reporting Requirements

- 4.5.1. (a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.
- (4) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

[40 C.F.R. §60.48c and 45CSR16-4.1]

- 4.5.2. Any violation(s) of the allowable visible emission requirement for any emission source discovered during observation using 40CFR60, Appendix A, Method 9 must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.
- 4.5.3. For the boiler B1, the permittee shall submit continued compliance reports on a semiannual schedule in accordance with 63.7550 (b)(1) through (5). Each report shall contain all information in 63.7550 (c)(1) through (11). For each deviation from an emission limit or operating limit in this subpart and for each deviation from the requirements for work practice standards in this subpart that occurs with boiler B1, the information required in paragraphs (d)(1) through (4) of 63.7550. This includes periods of startup, shutdown, and malfunction. **[40 C.F.R. §63.7550 and 45CSR34]**
- 4.5.4. For the boiler B1, the permittee shall submit a report of the performance test and fuel analyses with in sixty (60) days after the completion of the performance tests or fuel analyses. This report should also verify that the operating limits for your affected source have not changed or provide documentation of revised operating parameters established according to 63.7530 and Table 7 to this subpart, as applicable. The reports for all subsequent performance tests and fuel analyses should include all applicable information required in 63.7550. **[40 C.F.R. §63.7515(g) and 45CSR34]**

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature¹ _____ Date _____
(please use blue ink) Responsible Official or Authorized Representative

Name and Title _____ Title _____
(please print or type) Name

Telephone No. _____ Fax No. _____

¹ This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
 - (ii) the delegation of authority to such representative is approved in advance by the Director;
- b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
- d. The designated representative delegated with such authority and approved in advance by the Director.