

*West Virginia Department of Environmental Protection*

*Earl Ray Tomblin*  
Governor

*Division of Air Quality*

*Randy C. Huffman*  
Cabinet Secretary

# Permit to Modify



**R13-2656D**

*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:

**CertainTeed Gypsum WV, Inc.**  
**Moundsville Facility**  
**051-00113**

---

*John A. Benedict*  
Director

*Issued: DRAFT • Effective: DRAFT*

This permit will supercede and replace Permit R13-2656C.

Facility Location: Cresap, Marshall County, West Virginia

Mailing Address: 7200 Energy Road  
Proctor, WV 26055

Facility Description: Wallboard Manufacturing Facility

NAICS Codes: 327420

UTM Coordinates: 516 km Easting • 4,407.2 km Northing • Zone 17

Permit Type: Modification

Description of Change:

Installation of new silos, feeders, and a paper roll stand. Also, addition of recycled material into the process. With this application, the facility is becoming a PSD major source of CO.

*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 of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.*

## Table of Contents

<b>1.0. Emission Units .....</b>	<b>3</b>
<b>2.0. General Conditions .....</b>	<b>5</b>
2.1. Definitions .....	5
2.2. Acronyms .....	5
2.3. Authority .....	6
2.4. Term and Renewal .....	6
2.5. Duty to Comply .....	6
2.6. Duty to Provide Information .....	6
2.7. Duty to Supplement and Correct Information .....	7
2.8. Administrative Permit Update .....	7
2.9. Permit Modification .....	7
2.10. Major Permit Modification .....	7
2.11. Inspection and Entry .....	7
2.12. Emergency .....	7
2.13. Need to Halt or Reduce Activity Not a Defense .....	8
2.14. Suspension of Activities .....	8
2.15. Property Rights .....	8
2.16. Severability .....	9
2.17. Transferability .....	9
2.18. Notification Requirements .....	9
2.19. Credible Evidence .....	9
<b>3.0. Facility-Wide Requirements .....</b>	<b>10</b>
3.1. Limitations and Standards .....	10
3.2. Monitoring Requirements .....	10
3.3. Testing Requirements .....	10
3.4. Recordkeeping Requirements .....	12
3.5. Reporting Requirements .....	12
<b>4.0. Source-Specific Requirements .....</b>	<b>14</b>
4.1. Limitations and Standards .....	14
4.2. Monitoring and Recordkeeping Requirements .....	18
4.3. Testing Requirements .....	21
4.4. Reporting Requirements .....	21
<b>CERTIFICATION OF DATA ACCURACY .....</b>	<b>22</b>

### 1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device
EU02	EP02	End Saw System	2008	2 tph	Fabric Filter
EU03	EP03	Dunnage Machine	2008	2 tph	Fabric Filter
EU05	EP05	Cage Mill DSG Dryer	2007	50 mmbtu/hr	Fabric Filter
EU06	EP06	Cage Mill Feed Silo	2007	200 tons	Fabric Filter
EU07	EP07	DSG Conveying Equipment	2008	120 tph	Fabric Filter
EU08	EP08	#1 Intermediate DSG Silo	2007	186 tons	Fabric Filter
EU12	EP12	K10 Kettle	2008	31.7 mmbtu/hr	Fabric Filter
EU13	EP13	K20 Kettle	2008	31.7 mmbtu/hr	Fabric Filter
EU14	EP14	Stucco Cooler	2008	88 tph	Fabric Filter
EU16	EP16	HRA DSG Silo	2007	2.61 tons/hr	Fabric Filter
EU17	EP17	HRA Dextrose Silo	2007	0.14 tons/hr	Fabric Filter
EU18	EP18	HRA Ball Mill System	2007	1.65 tph	Fabric Filter
EU20	EP20	Stucco Silo	2007	600 tons/hr	Fabric Filter
EU21	EP21	Mixer and Additives Storage	2007	96 tph	Fabric Filter
EU22	EP22	Stucco Metering Equipment	2008	96 tph	Fabric Filter
EU23	EP23	Intermediate Stucco Silo	2007	100 tons	Fabric Filter
EU24	EP24	Stucco Ball Mill	2008	67.2 tph	Fabric Filter
EU25	EP25	Starch Silo	2008	24.8 tph	Fabric Filter
EU27	EP27	Semi-Bulk Transfer Station Bin	2008	24.8 tons/hr	Fabric Filter
EU29	EP29	Boric Acid Feeder Bin	2007	3 tons/hr	Fabric Filter
EU30	EP30	Potash Feeder Bin	2007	6 tons/hr	Fabric Filter
EU31	EP31	Dextrose Feeder Bin	2007	2.5 tons/hr	Fabric Filter
EU33	EP33	Starch Feeder Bin	2007	2 tph	Fabric Filter
EU34	EP34	HRA Feeder Bin	2007	4 tph	Fabric Filter
EU36	EP36	Board Dryer	2007	147 mmbtu/hr	None
EU37	EP37	Two Paper Heaters	2007	1.9 mmbtu/hr (total)	None
EU39	Fugitive	Storage Piles	2007	6.83 acres (total)	None

### 1.0 Emission Units

EU40	EP40	Material Handling	2007	330-1100 tph	None
EU41	Fugitive	Haul Roads	2007	67,085 MPY	None
EU42	EP42	Foaming Agent Tank 01	2007	9500 Gallons	None
EU43	EP43	Foaming Agent Tank 02	2007	100 Gallons	None
EU44	EP44	K10 Kettle Supply Screw	2007	120 tph	Fabric Filter
EU45	EP45	K20 Kettle Bad Batch Return Screw	2007	22 tph	Fabric Filter
EU46	EP46	Stucco Cooler Bypass Screw #2	2007	88 tph	Fabric Filter
EU47	EP47	Cage Mill Cyclone Transfer Screw	2007	120 tph	Fabric Filter
EU48	EP48	K20 Kettle Transfer Screw	2007	120 tph	Fabric Filter
EU49	EP49	Inking Operations	2007	3.3 lb/hr	None
EU50	EP50	Ethylated Starch Silo	2013	5,000 ft <sup>3</sup>	Fabric Filter
EU51	EP51	Ethylated Starch Feeder Bin	2013	1 ton/hr	Fabric Filter
EU52	EP52	Vermiculite Silo	2013	3,000 ft <sup>3</sup>	Fabric Filter
EU53	EP53	Vermiculite Feeder Bin	2013	1 ton/hr	Fabric Filter

## 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

<b>CAAA</b>	Clean Air Act Amendments	<b>NSPS</b>	New Source Performance Standards
<b>CBI</b>	Confidential Business Information	<b>PM</b>	Particulate Matter
<b>CEM</b>	Continuous Emission Monitor	<b>PM<sub>2.5</sub></b>	Particulate Matter less than 2.5µm in diameter
<b>CES</b>	Certified Emission Statement	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>Ppb</b>	Pounds per Batch
<b>CO</b>	Carbon Monoxide	<b>pph</b>	Pounds per Hour
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>ppm</b>	Parts per Million
<b>DAQ</b>	Division of Air Quality	<b>Ppmv or ppmv</b>	Parts per million by volume
<b>DEP</b>	Department of Environmental Protection	<b>PSD</b>	Prevention of Significant Deterioration
<b>dscm</b>	Dry Standard Cubic Meter	<b>psi</b>	Pounds per Square Inch
<b>FOIA</b>	Freedom of Information Act	<b>SIC</b>	Standard Industrial Classification
<b>HAP</b>	Hazardous Air Pollutant	<b>SIP</b>	State Implementation Plan
<b>HON</b>	Hazardous Organic NESHAP	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>HP</b>	Horsepower	<b>TAP</b>	Toxic Air Pollutant
<b>lbs/hr</b>	Pounds per Hour	<b>TPY</b>	Tons per Year
<b>LDAR</b>	Leak Detection and Repair	<b>TRS</b>	Total Reduced Sulfur
<b>M</b>	Thousand	<b>TSP</b>	Total Suspended Particulate
<b>MACT</b>	Maximum Achievable Control Technology	<b>USEPA</b>	United States Environmental Protection Agency
<b>MDHI</b>	Maximum Design Heat Input	<b>UTM</b>	Universal Transverse Mercator
<b>MM</b>	Million	<b>VEE</b>	Visual Emissions Evaluation
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour	<b>VOC</b>	Volatile Organic Compounds
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet per Hour	<b>VOL</b>	Volatile Organic Liquids
<b>NA</b>	Not Applicable		
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		
<b>NO<sub>x</sub></b>	Nitrogen Oxides		

### **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 R13-2656C. 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 R13-2656, R13-2656A, R13-2656B, R13-2656C and R13-2656D 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 not 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

*[Reserved]*

#### 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.
- d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language;
  2. The result of the test for each permit or rule condition; and,
  3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

### 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  
(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. Point Source emissions from the facility shall not exceed the following:

Source	PM <sub>2.5</sub>		PM <sub>10</sub> <sup>3</sup>		NO <sub>x</sub>		CO		SO <sub>2</sub>		VOC		HAPs <sup>4</sup>	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
EU02	0.99	4.32	1.97	8.63	--	--	--	--	--	--	--	--	--	--
EU03	0.3	1.31	0.60	2.63	--	--	--	--	--	--	--	--	--	--
EU05	6.0	26.3	6.0	26.3	2.29	10.1	2.65	11.6	0.03	0.13	0.27	1.18	0.09	0.40
EU06	0.12	0.51	0.23	1.01	--	--	--	--	--	--	--	--	--	--
EU07	0.39	1.72	0.79	3.44	--	--	--	--	--	--	--	--	--	--
EU08	0.07	0.28	0.13	0.57	--	--	--	--	--	--	--	--	--	--
EU12	3.23	14.1	3.23	14.1	6.80	29.8	6.06	26.6	0.02	0.08	0.17	0.75	0.06	0.26
EU13	3.23	14.1	3.23	14.1	6.80	29.8	6.06	26.6	0.02	0.08	0.17	0.75	0.06	0.26
EU14	0.09	0.38	0.17	0.75	--	--	--	--	--	--	--	--	--	--
EU16	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU17	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU18	0.26	1.15	0.52	2.30	--	--	--	--	--	--	--	--	--	--
EU20	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU21	0.05	0.22	0.10	0.44	--	--	--	--	--	--	--	--	--	--
EU22	0.11	0.5	0.23	0.99	--	--	--	--	--	--	--	--	--	--
EU23	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU24	0.15	0.66	0.30	1.33	--	--	--	--	--	--	--	--	--	--
EU25	0.06	0.27	0.12	0.53	--	--	--	--	--	--	--	--	--	--
EU27	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU29	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU30	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU31	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU33	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU34	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU36 <sup>1</sup>	2.15	9.4	2.15	9.4	4.65	20.4	13.9	60.8	0.07	0.3	14.3	62.5	0.22	1.0

EU36 <sup>2</sup>	32.03	19.32	32.03	19.32	3.01	13.2	10.4	45.4	0.02	0.1	0.18	0.8	0.05	0.2
	2.4		2.4											
EU37	0.02	0.07	0.02	0.07	0.18	0.76	0.08	0.33	0.01	0.01	0.01	0.05	0.01	0.02
EU40	0.55	2.4	3.41	14.9	--	--	--	--	--	--	--	--	--	--
EU42	--	--	--	--	--	--	--	--	--	--	0.01	0.01	--	--
EU43	--	--	--	--	--	--	--	--	--	--	0.01	0.01	--	--
EU44	0.01	0.04	0.02	0.08	--	--	--	--	--	--	--	--	--	--
EU45	0.01	0.04	0.02	0.08	--	--	--	--	--	--	--	--	--	--
EU46	0.01	0.04	0.02	0.08	--	--	--	--	--	--	--	--	--	--
EU47	0.01	0.04	0.02	0.08	--	--	--	--	--	--	--	--	--	--
EU48	0.01	0.04	0.02	0.08	--	--	--	--	--	--	--	--	--	--
EU49	--	--	--	--	--	--	--	--	--	--	3.0	13.0	--	--
EU50	0.06	0.27	0.12	0.53	--	--	--	--	--	--	--	--	--	--
EU51	0.03	0.11	0.05	0.22	--	--	--	--	--	--	--	--	--	--
EU52	0.06	0.27	0.12	0.53	--	--	--	--	--	--	--	--	--	--
EU53	0.03	0.11	0.05	0.22	--	--	39.2	171	0.17	0.7	18.1	79.1	0.49	2.14
<b>Total</b>	<b>52.7</b>	<b>99.1</b>	<b>58.6</b>	<b>124.9</b>	<b>23.7</b>	<b>104.1</b>	<b>78.3</b>	<b>342.7</b>	<b>0.3</b>	<b>1.4</b>	<b>36.2</b>	<b>158.1</b>	<b>1.0</b>	<b>4.3</b>

<sup>1</sup>Zones 1 and 2

<sup>2</sup>Zone 3. High hourly PM<sub>2.5</sub> and PM<sub>10</sub> apply when processing Moisture Resistant Board. Low hourly PM<sub>2.5</sub> and PM<sub>10</sub> apply when processing Regular Board

<sup>3</sup>All PM<sub>10</sub> emission limits are also total PM limits except for emissions from EU40.

<sup>4</sup>From combustion of natural gas only (excludes HAP emissions from additive, inks and foaming agents which are accounted for in condition 4.1.25).

- 4.1.2 Fugitive PM emissions from EU40 shall not exceed 7.06 pounds per hour nor 30.9 tons per year.
- 4.1.3 The facility shall burn only pipeline quality natural gas for fuel.
- 4.1.4 Natural gas usage by the entire facility shall not exceed 251.84 mscf per hour nor 2,206.12 mmscf per year.
- 4.1.5 No person shall cause, suffer, allow, or permit emissions of smoke and/or particulate matter into the open air from any process source operation greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.  
**[45CSR§7-3.1]**
- 4.1.6 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.  
**[45CSR§7-4.1]**
- 4.1.7 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.

**[45CSR§7-5.1]**

- 4.1.8 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.

**[45CSR§7-5.2]**

- 4.1.9 The following sources are subject to 40 CFR 60 Subpart OOO:

Emission Unit ID	Emission Unit Name	Emission Point ID
EU05	Cage Mill DSG Dryer	FF05
EU06	Cage Mill Feed Silo	FF06
EU07	DSG Conveying Equipment	FF07
EU08	#1 Intermediate DSG Silo	FF08
EU16	HRA Landplaster Bin	FF16
EU18	HRA Ball Mill System	FF18
EU52	Vermiculite Storage Silo	FF37
EU53	Vermiculite Feeder Bin	FF38

- 4.1.10 Stack emissions of PM from equipment covered by 40 CFR 60 Subpart OOO shall not exceed 0.05 grams per dscm (0.022 grains per dscf).

**[40CFR §60.672(1)]**

- 4.1.11 Stack Opacity from equipment covered by 40 CFR 60 Subpart OOO shall not exceed 7%.

**[40CFR §60.672(2)]**

- 4.1.12 Opacity from fugitive emissions from equipment covered by 40 CFR 60 Subpart OOO shall not exceed 10%.

**[40CFR §60.672(2)(b)]**

- 4.1.13 If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the limits in sections 4.1.9, 4.1.10, and 4.1.11 of this permit or the facility must comply with the following limits:

4.1.13.1 No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 40 CFR §60.671.

4.1.13.2 No owner or operator shall cause to be discharged into the atmosphere from any vent of any

building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emission limits of conditions 4.1.9 and 4.1.10 of this permit.

**[40CFR §60.672(2)(e)]**

4.1.14 The following sources are subject to 40 CFR 60 Subpart UUU:

Emission Unit ID	Emission Unit Name	Emission Point ID
EU12	#1 Kettle	FF12
EU13	#2 Kettle	FF13

4.1.15 Emissions of Particulate Matter from the #1 Kettle shall not exceed 0.092 grams per dscm (0.04 grains per dscf).

**[40CFR §60.732(a)]**

4.1.16 Emissions of Particulate Matter from the #2 Kettle shall not exceed 0.092 grams per dscm (0.04 grains per dscf).

**[40CFR §60.732(a)]**

4.1.17 Opacity from the #1 Kettle shall not exceed 10%.

**[40CFR §60.732(b)]**

4.1.18 Opacity from the #2 Kettle shall not exceed 10%.

**[40CFR §60.732(b)]**

4.1.19 The total number of Gypsum Supply and Finished Wallboard truck vehicle miles traveled (combined) shall not exceed 35,098 miles per year based on a rolling 12 month total.

4.1.20 The total number of Paper truck vehicle miles traveled shall not exceed 979 miles per year based on a rolling 12 month total.

4.1.21 The total number of miscellaneous raw material truck vehicle miles traveled shall not exceed 489 miles per year based on a rolling 12 month total.

4.1.22 The total number of reject to reclaim truck vehicle miles traveled shall not exceed 734 miles per year based on a rolling 12 month total.

4.1.23 The total number of reclaim to main process area truck vehicle miles traveled shall not exceed 5,400 miles per year based on a rolling 12 month total

4.1.24 The total annual VOC content of all inks, wet additives and foaming agents shall not exceed 75.5 tons per year based on a 12 month rolling total.

4.1.25 The total annual HAP content of all inks, wet additives and foaming agents shall not exceed 22.6 tons per year of all total HAPs nor 7.5 tons per year of any individual HAP based on a 12 month rolling total.

4.1.26 The amount of recycled material introduced into Kettles K10 and K20 (EU12 &EU13) shall not exceed 7.7% of the total amount of material introduced.

- 4.1.27 The Wallboard Dryer (EU36) shall not process “moisture resistant” board more than 594 hours per year based on a rolling 12 month total.
- 4.1.28. **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 and Recordkeeping Requirements

- 4.2.1. The permittee shall monitor and record the pressure drop across all fabric filters on a weekly basis.
- 4.2.2 During any period of malfunction of any fabric filter (if any of the emission units associated with each station are in operation) a daily log of the following information shall be monitored and recorded:
- 4.2.2.1 Whether there were any visible emissions. If visible emissions are observed, the permittee shall record the following information:
- 4.2.2.1.1 Whether the visible emissions are normal for the process.
- 4.2.2.1.2 The cause of any abnormal emissions.
- 4.2.2.1.3 Any corrective action taken.
- 4.2.2.1.4 Document all routine and non-routine maintenance activities performed on the fabric filters.
- 4.2.3 The permittee shall monitor and record the quantity of all inks, wet additives and foaming agents used along with their VOC and HAP content.
- 4.2.4 The permittee shall monitor and record the number of gypsum supply, finished wallboard, paper, miscellaneous raw material, reject to reclaim and reclaim to main process area truck vehicle miles traveled on a monthly basis.
- 4.2.5 For the purpose of determining compliance with the opacity limits of 4.1.5, 4.1.11 and 4.1.12 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 40CFR Part 60, Appendix A, Method 22 or from the lecture portion of the 40CFR Part 60, Appendix A, Method 9 certification course.

Visible emission checks 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 at each source (stacks, conveyors, crushers, silos, bins, and screens) 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.

If visible emissions are present at a source(s) for six (6) consecutive monthly checks, the permittee shall conduct an opacity reading at that source(s) using the procedures and requirements of Method 9 as soon as practicable, but within seventy-two (72) hours of the final visual emission check. Method 9 checks shall be performed on the source for at least six (6) minutes. A Method 9 observation at a source(s) restarts the count of the number of consecutive readings with the presence of visible emissions.

4.2.6. **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.

4.2.7. **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.

4.2.8. **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.



PM<sub>2.5</sub> on the board dryer (EU36), one calcining kettle (either EU12 or EU13) and the cage mill DSG dryer (EU 05). PM<sub>2.5</sub> testing of the calcining kettle (EU12 or EU13) shall be performed while the recycle rate is at 7.7% or as close as practical. Additionally, PM<sub>2.5</sub> testing of the board dryer shall be performed while the dryer is processing moisture resistant board and again while the dryer is processing regular board.

4.3.1.2 The permittee shall perform EPA approved stack tests to determine emissions of PM<sub>2.5</sub> from the end saw dust collector (FF02) which controls the waste/recycle system (EU02).

4.3.2 After initial testing, ongoing compliance shall be demonstrated by repeating the above testing according to the following schedule:

Test	Test Results	Testing Frequency
Initial	≤50% of limits	Once/5 years
Initial	Between 50% and 90% limits	Once/3 years
Initial	≥90% of limits	Annual
Annual	After two successive tests indicate emission rates ≤50% of limits	Once/5 years
Annual	After two successive tests indicate emission rates <90% of limits	Once/3 years
Annual	≥90% of limits	Annual
Once/3 years	After two successive tests indicate emission rates ≤50% of limits	Once/5 years
Once/3 years	< 90% of limits	Once/3 years
Once/3 years	≥90% of limits	Annual
Once/5 years	≤50% of limits	Once/5 years
Once/5 years	< 90% of limits	Once/3 years
Once/5 years	≥90% of limits	Annual

#### 4.4. Reporting Requirements

*[Reserved]*

---

### 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.

Signature<sup>1</sup> \_\_\_\_\_ Date \_\_\_\_\_  
(please use blue ink) Responsible Official or Authorized Representative

Name and Title \_\_\_\_\_ Title \_\_\_\_\_  
(please print or type) Name

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

- 
- <sup>1</sup> 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.