

# State of Mississippi



# FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT

Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

#### THIS CERTIFIES

CertainTeed Gypsum And Ceiling Manufacturing, Inc.
2710 Highway 11 South
Meridian, MS
Lauderdale County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. set., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

Mississippi Environmental Quality Permit Board

Mississippi Department of Environmental Quality

Issued/Modified: APR 2 3 2009

Expires: MAR 3 1 2014

Permit No. 1460-00014

Agency Interest # 2338

\*\*\* Official MDEQ Permit - Version 1.1 \*\*\*

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CertainTeed Gypsum And Ceiling Manufacturing, Inc.

Subject Item Inventory Permit Number:1460-00014 Activity ID No.: PER20090003

# **Subject Item Inventory:**

ID	Designation	Description
AI2338		
AREA1	AA-002	Perlite Unloading, Transfer, and Storage
AREA2	AA-003	Perlite Expander #1 Equipped with a 99% Efficient Baghouse and an 85% Efficient Cyclone.
AREA4	AA-004	Perlite Expander #2 Equipped with a 99% Efficient Baghouse and an 85% Efficient Cyclone
AREA5	AA-005	Perlite Expander #3 Equipped with a 99% Efficient Baghouse and an 85% Efficient Cyclone
AREA6	AA-006	Bulk Starch Silo Equipped with a 99% Efficient Baghouse
AREA7	AA-007	Expanded Perlite Transfer System Equipped with a 99% Efficient Baghouse
AREA8	AA-008	Fabrication Mainline Equipped with a 99% Efficient Baghouse
AREA9	AA-009	Steinmann Blowout Station
AREA10	AA-010	Accumulation Vents Equipped with a 99% Efficient Baghouse
AREA11	AA-011	Reveal Edge Line Operation
AREA12	AA-012	Paint Mixing Operation, Starch Mix Tank Equipped with a 99% Efficient Baghouse, Mix Chest Printer, Label Machine, and Mineral Wool Bale Breaking
AREA13	AA-013	Paint Mixing Operation, Steinmann Station-Stipple Coater, RE Line Spray Booth, Date Printer, and Label Machine
AREA14	AA-014	Afterspray Booth
EQPT1	AA-001a	39.96 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 1 (Particle Board Dryer)
EQPT2	AA-001b	39.96 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 2 (Particle Board Dryer)
EQPT3	AA-001c	30.02 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 3 (Particle Board Dryer)

CertainTeed Gypsum And Ceiling Manufacturing, Inc.

Subject Item Inventory Permit Number:1460-00014 Activity ID No.: PER20090003

ID	Designation	Description
EQPT4	AA-001d	30.02 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 4 (Particle Board Dryer)

### **Subject Item Groups:**

ID	Description	Components
GRPT1	Particle Board Dryers	EQPT2 39.96 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 2 (Particle Board Dryer)
		EQPT3 30.02 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 3 (Particle Board Dryer)
		EQPT4 30.02 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 4 (Particle Board Dryer)
		EQPT1 39.96 MMBTU/hr Natural Gas-fired Coe Dryer-Zone 1 (Particle Board Dryer)

### **Receiving Stream Relationships:**

Subject Item	Relationship	Receiving Stream
AI 2338	Discharges Into	Sowashee Creek
	Then Into	Sowashee Creek

<u>KEY</u>	
ACT = Activity	AI = Agency Interest
AREA = Area	CAFO = Concentrated Animal Feeding Operation
CONT = Control Device	EQPT = Equipment
IA = Insignificant Activity	MAFO = Animal Feeding Operation
RPNT = Release Point	TRMT = Treatment

CertainTeed Gypsum And Ceiling Manufacturing, Inc. Facility Requirements Permit Number:1460-00014

Activity ID No.: PER20090003

#### AI0000002338:

## Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations equal to or greater than 10 million BTU per hour heat input but less than 10,000 million BTU per hour heat input shall not exceed an emission rate as determined by the relationship: $E = 0.8808 * I$ (to the power of -0.1667), where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour. [APC-S-1, 3.4.(a)(2)]
L-2	Particulate Matter	Particulate Matter: Except as otherwise specified, the permittee shall not cause, permit, or allow the emission from any manufacturing process, in any one hour from any point source, particulate matter in total quantities in excess of the amount determined by the relationship: $E = 4.1 * p(to the power of 0.67)$ , where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. [APC-S-1, 3.6.(a)]
L-3	Opacity	Opacity: The permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, determined by EPA Reference Method 9, 40 CFR 60, Appendix A. This shall not apply to vision obscuration caused by uncombined water droplets. [APC-S-1, 3]
L-4	Sulfur Dioxide	Sulfur Dioxide: The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. [APC-S-1, 4.1.(a)]
L-5		Facility-Wide Emission Limitations The permittee shall limit total particulate matter emissions to no more than 99.0 tons per year as determined for each consecutive 12-month period. [APC-S-2, II.B.10]
L-6		Facility-Wide Emission Limitations The permittee shall limit sulfur doixide emissions to no more than 99.0 tons per year as determined for each consecutive 12-month period. [APC-S-2, II.B.10]
L-7		Facility-Wide Emission Limitations The permittee shall limit nitrogen oxide emissions to no more than 99.0 tons per year as determined for each consecutive 12-month period. [APC-S-2, II.B.10]

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#### AI0000002338 (continued):

### Limitation Requirements:

the deviation began. [APC-S-2 II.B(10)]

Condition No.	Parameter	Condition
	1 drameter	
L-8		Facility-Wide Emission Limitations The permittee shall limit fuel burning sources to the use of natural gas fuel only. [APC-S-2, II.B.10]
Monitori	ing Requirements:	
Condition		
No.	Parameter	Condition
M-1		The permittee shall monitor raw materials consumption and usage to assure compliance with the limitations established in Condition No.'s L-5, L-6, and L-7 of the federally enforceable permit herein. [APC-S-2, II.B.11]
Record-I	Keeping Requireme	ents:
Condition		
No.	Condition	
R-1		ntain sufficient records of raw materials consumption and usage on a monthly basis, calculating emission rates consistent with compliance ations established in Condition No.'s L-5, L-6, and L-7 of the federally enforceable permit herein. [APC-S-2, II.B.11]
Submitta	al/Action Requirem	ents:
Condition		
No.	Condition	
S-1		ept as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, ch deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time

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### AI0000002338 (continued):

## Submittal/Action Requirements:

Condition No.	Condition
S-2	Except as otherwise specified herein, the permittee shall Submit a certified annual synthetic minor monitoring report: Due annually, by the 31st of January for preceding calendar year. This report shall address any required monitoring specified in the permit. [APC-S-2 II.B(11)]
S-3	The permittee shall submit a report summarizing the results of the monitoring and recordkeeping required in Condition No.'s M-1 and R-1 of the federally enforceable permit herein, semiannually, due by the 31st of January and July for preceding six months. [APC-S-2, II.B.11]

Condition No.	Condition
T-1	General Condition: Any activities not identified in the application are not authorized by this permit. [Miss. Code Ann. 49-17-29 1.b]
T-2	General Condition: The permittee shall at all times maintain in good working order and operate as efficiently as possible all air pollution control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. [APC-S-2 V.A]
T-3	General Condition: Solids removed in the course of control of air emissions shall be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering state waters without the proper environmental permits. [Miss. Code Ann. 49-17-29 1.a(i and ii)]
T-4	General Condition: Any diversion from or bypass of collection and control facilities is prohibited except as provided for in Regulation APC-S-1, "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10. [APC-S-1 Section 10]
T-5	General Condition: Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule. [APC-S-2 X]
T-6	General Condition: The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials:  (a) To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit, and  (b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emission. [Miss. Code Ann. 49-17-21]

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### AI0000002338 (continued):

Condition No.	Condition
T-7	General Condition: After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:  (a) Violation of any terms or conditions of this permit  (b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or  (c) A change in any condition that required either a temporary or permanent reduction or elimination of authorized air emissions. [APC-S-2 II.C]
T-8	General Condition: This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for this permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of the permit. [APC-S-2 II.B(15)b]
T-9	General Condition: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control. [Miss. Code Ann. 49-17-39]
T-10	General Condition: The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations. [APC-S-2 II.B(15)c]
T-11	General Condition: Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances. [APC-S-2 II.B(7)]
T-12	General Condition: This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board. [APC-S-2 XVI.B]
T-13	General Condition: This permit is for air pollution control purposes only. [APC-S-2 I.D(1)]
T-14	General Condition: This permit is a Federally-approved permit to operate a synthetic minor source as described in Regulation APC-S-2, Section IV.D. [APC-S-2 IV.D]
T-15	General Condition: The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. [APC-S-2 I.D(7)]

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### AI0000002338 (continued):

Condition No.	Condition
T-16	General Condition: The permittee shall furnish to MDEQ within a reasonable time any information MDEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to MDEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to MDEQ along with a claim of confidentiality. [APC-S-2 II.B(15)d]
T-17	General Condition: This permit does not authorize a modification as defined in APC-S-2, "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment". Modification is defined as "Any physical change in or change in the method of operation of a facility which increases actual emissions or potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:  (a) routine maintenance, repair, and replacement;  (b) use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;  (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;  (d) use of an alternative fuel or raw material by a stationary source which: (i) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or (ii) the source is approved to use under any permit issued under 40 CFR 52.51 or under regulations approved pursuant to 40 CFR 51.166; or (ii) the source is approved to use under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.51, or under regulations approved pursuant to 50 CFR 51.166; or (ii) the source is approved pursuant to 50 CFR 51.166; or (ii) the source is approved pursuant to 50 CFR 51.166; or (ii) the source is approved pursuant to 50 CFR 51.166; or (ii) the source is approved pursuant to 50 CFR
T-18	General Condition: It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. [APC-S-2 II.B(15)a]
T-19	General Condition: The permittee shall retain all required records, monitoring data, supported information and reports for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to MDEQ as required by Applicable Rules and Regulations or this permit upon request. [APC-S-2 IX]

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### AI0000002338 (continued):

Condition No.	Condition
T-20	General Condition: The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for constructing or operating without a valid permit. [APC-S-2 II.B(5)]
T-21	General Condition: Emergencies  (a) Except as otherwise specified herein, an emergency means any situation arising from sudden and reasonably unforseeable 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.  (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.  (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence as follows:  (i) an emergency occurred and that the permittee can identify the cause(s) of the emergency; (ii) the permitted facility was at the time being properly operated; (iii) 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 (iv) the permittee submitted notice of the emergency to MDEQ within two (2) working days of the time when emission limitations were exceeded due to the emergency which contained a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.  (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of any emergency has the burden of proof.  (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein [APC-S-2 II.B(10)]
T-22	General Condition: Upsets  (a) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows: (i) an upset occurred and that the permittee can identify the cause(s) of the upset; (ii) the source was at the time being properly operated; (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit; (iv) the permittee submitted notice of the upset to the DEQ within five (5) working days of the time the upset began which contained a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.  (b) In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.  (c) This provision is in addition to any upset provision contained in any applicable requirement. [APC-S-1 Section 10]

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### AI0000002338 (continued):

Condition No.	Condition
T-23	General Condition: Startups and Shutdowns  (a) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows: (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above; (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.  (b) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.  (c) In the even this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply. [APC-S-1 Section 10]
T-24	General Condition: Maintenance  (a) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following: (i) the permittee can identify the need for the maintenance; (ii) the source was at the time being properly operated; (iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit; (iv) the permittee submitted notice of the maintenance to MDEQ within five (5) working days of the time the maintenance began or such other times as allowed by MDEQ, which contained a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.  (b) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.  (c) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. [APC-S-1 Section 10]
T-25	General Condition: For renewal of this permit the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. [APC-S-2 VIII]

### **GENERAL INFORMATION**

CertainTeed Gypsum And Ceiling Manufacturing, Inc.
2710 Highway 11 South
Meridian, MS
Lauderdale County

#### **Alternate/Historic Identifiers**

ID	Alternate/Historic Name	User Group	Start Date	End Date
2338	BPB America, Inc.	Historic Site Name	12/22/2003	5/30/2008
2807500014	BPB America Inc	Air-AIRS AFS (MDEQ USE ONLY)	10/12/2000	12/22/2003
146000014	Celotex Corporation, The	Air-Title V Operating	4/2/1998	4/1/2003
MSR000911	Celotex Corporation, The	GP-Baseline	10/13/1993	1/18/2001
MSP090114	Celotex Corporation, The	Water - Pretreatment	1/24/1995	1/23/2000
MS0003107	Celotex Corporation, The	Water - NPDES	7/9/1996	7/8/2001
MSP090114	Celotex Corporation, The	Water - Pretreatment	9/30/1999	5/27/2004
MSP090114	Celotex Corporation, The	Water - Pretreatment	9/29/1999	9/30/1999
MSR000911	Celotex Corporation, The	GP-Baseline	1/18/2001	2/9/2006
MS0003107	BPB America, Inc., of BPB America, Inc.	Water - NPDES	5/16/2002	4/4/2007
2807500014	CertainTeed Gypsum & Ceiling Manufacturing, Inc.	Air-AIRS AFS	12/22/2003	
146000014	BPB	Air-Title V Operating	12/22/2003	11/30/2008
2338	Celotex Corporation, The	Historic Site Name	10/13/1993	12/22/2003
MSR000101253	BPB Meridian Plant	Hazardous Waste-EPA ID	1/24/2003	
MSP090114	BPB America, Inc.	Water - Pretreatment	5/27/2004	4/30/2009
MSR000911	BPB America Inc	GP-Baseline	2/9/2006	9/30/2010
146000014	CertainTeed Gypsum & Ceiling Manufacturing, Inc.	Air-Title V Fee Customer	4/2/1998	4/23/2009
MS0003107	BPB America Inc	Water - NPDES	4/4/2007	3/31/2012
2338	CertainTeed Gypsum & Ceiling Manufacturing, Inc.	Official Site Name	5/30/2008	
146000014	CertainTeed Gypsum And Ceiling Manufacturing, Inc.	Air-Synthetic Minor Operating	4/23/2009	3/31/2014

**Basin:** Pascagoula River Basin

### **GENERAL INFORMATION**

**Latitude:** 32° 20' 4" 4 tenths **Longitude**: 88° 44' 33" 8 tenths

**Location Description:**PG - Plant Entrance (General). Data collected by Chuck Gray on 5/2/02. Comments: Front entrance to plant.