Boral Material Technologies, Inc.
Panama City Facility
Facility ID No.: 7775355
Bay County

Air Operation Permit
Permit No.: 7775355-003-AO

Permitting and Compliance Authority
Department of Environmental Protection
Northwest District Office
160 W Government Street, Suite 308
Pensacola, FL 32502-5740
Telephone: 850.595.8300
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[Electronic file name: 7775355-003-AO.doc]

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Northwest District
160 W Government St., Suite 308
Pensacola, Florida 32502-5740

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GOVERNOR

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SECRETARY

Permittee:
Boral Material Technologies, Inc.

Permit No.: 7775355-003-AO
Facility ID No.: 7775355
SIC No(s).: 50, 5032
Project: Air Operation Permit

This renewal permit is for the operation of the Panama City Facility located at 800 Industrial Drive, Bay County; UTM Coordinates: Zone 16, 630.4 km East and 3339.3 km North; Latitude: 30° 11' 03" North and Longitude: 85° 38' 45" West.

STATEMENT OF BASIS: This air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Effective Date: January 3, 2013
Renewal Application Due Date: November 4, 2017
Expiration Date: January 3, 2018

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

/Armando Sarasua signed for/

Rick Bradburn
Air Program Administrator

RB/aj/c

Section I. Facility Information.
This is a renewal of permit 7775355-002-AO, effective January 30, 2008.

Subsection A. Facility Description.
This facility consists of a fly ash terminal. Fly ash generated by off-site coal-fired combustion is delivered to the site by railcar and pneumatically loaded to a fly ash silo at a maximum rate of 50 tons per hour. The fly ash silo loads tanker trucks through a gravity fed load out spout at a maximum rate of 150 tons per hour. Particulate matter (PM) emissions created by silo loading are controlled by a StaClean diffuser baghouse, Model No. 30-3.2-BDS StaClean pleated bag pulse jet in vent, located atop the silo. The facility has a maximum throughput rate 70,000 tons per year.

This facility's potential PM emissions are listed below:

Operations	Throughput (TPY)	EF (lb/Ton)	PM (TPY)
Fly ash loading to silo	70,000	0.0089	0.31
Fly ash Truck Loading	70,000	0.0568	1.99
	Facility Total Emissions		2.30

EF – Based on AP-42 Table 11.12-2, controlled factors.

Based on the permit application received November 29, 2012, this facility is not a major source of hazardous air pollutants (HAP).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No.	**Brief Description**
001	Baghouse atop fly ash terminal silo

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

This document is on file with the permitting authority:
Permit Application received November 29, 2012

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. All listed Appendices are part of this permit.

2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants that cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. [Rules 62-296.320(4)(b)1. & 4., F.A.C.]

4. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standards contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests that identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. Notification of compliance testing and completed test reports may be submitted by electronic mail to nwdair@dep.state.fl.us. [Rule 62-297.310(7)(b), F.A.C.]

5. Asbestos. This permit does not authorize any demolition or renovation of the facility or its parts or components which involves asbestos removal. This permit does not constitute a waiver of any of the requirements of Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, National Emission Standard for Asbestos, adopted and incorporated by reference in Rule 62-204.800, F.A.C. Compliance with Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, Section 61.145, is required for any asbestos demolition or renovation at the source. [40 CFR 61; Rule 62-204.800, F.A.C.; and, Chapter 62-257, F.A.C.]

6. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1), F.A.C.]

7. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a) Paving and maintenance of roads, parking areas and yards.

b) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
c) Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
d) Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.

[Rule 62-296.320(4)(c), F.A.C.; and Appendix D - Precautions to Prevent Emissions of Unconfined PM]

8. Sixty days prior to the expiration date of this operation permit, the Permittee shall submit four permit renewal applications using the current version of the renewal form along with the processing fee established in Rule 62-4.050(4), F.A.C., to the Northwest District office of the Department. You can obtain a permit application form or apply for permit renewal electronically at the following web address: http://www.dep.state.fl.us/air/emission/permitting.htm. [Rule 62-4.090, F.A.C.]

9. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northwest District office:

Department of Environmental Protection
Northwest District Office
160 W Government Street, Suite 308
Pensacola, Florida 32502-5740
Telephone: 850.595.8300; Fax: 850.595.8096

Notification of compliance testing and completed test reports may be submitted by electronic mail to nwdair@dep.state.fl.us. A copy of all compliance related notifications shall be sent to the Northwest District Branch Office in Panama City at 470 Harrison Ave, Panama City FL 32401.

10. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is 850.595.0578, day or night, and for emergencies involving a significant threat to human health or the environment is 800.320.0519. For routine business, telephone 850.595.8300 during normal working hours. [Rules 62-210.700 and 62-4.130, F.A.C.]

11. Environmental Compliance Plan (ECP). This plan outlines the procedures the permittee incorporates during the normal operation of this facility and provides necessary assurance that the facility will operate in compliance. The permittee shall follow all procedures outlined in the recently approved ECP (Appendix AP-1). [Rules 62-4.030 and 62-4.070, F.A.C.]

{Permit Note: An ECP should be a living document that provides procedures to help in maintaining the subject facility in compliance with applicable air regulations. Keeping this document up to date with the facility's current activities will not require any permit action; however, such modifications shall be submitted to the Department for approval. This does not alleviate the facility from the air construction permitting requirements for facility modifications per Rule 62-210.300(1)(a), F.A.C.}

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions unit.

E.U. ID No.	**Brief Description**
001	Baghouse atop flyash terminal silo

This emission unit consists of a silo bin vent baghouse. The StaClean diffuser baghouse, Model 30-3.2BDS StaClean pleated cartridge pulse jet bin vent. This bin vent baghouse has 30 pleated cartridges, 6.25" diameter x 36" long, having 802 square feet effective filtering area. Air flow is 3,000 CFM at 70°F, and air to filtering surface ratio of 3.74:1.

The fly ash is used in cement and concrete mixtures. Fly ash is an artificial pozzolan produced when pulverized coal is burned in electric power plants. A pozzolan is a finely-divided material that reacts with calcium hydroxide and alkalies to form compounds possessing cementitious properties. The glassy (amorphous) spherical particulates are the active pozzolanic portion of fly ash. Fly ash is 66-68% glass. Class F fly ash (ASTM C 618) readily reacts with lime (produced when portland cement hydrates) and alkalies to form cementitious compounds. Class C fly ash also may exhibit hydraulic (self-cementing) properties.

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Capacity. The facility is limited to a maximum throughput of 70,000 tons per 12-month rolling period of pozzolan coal-fired combustion fly ash. The maximum rate at which fly ash may be offloaded form the railroad car into silo shall not exceed 50 TPH. The maximum rate at which fly ash may be off loaded from the silo into the truck tanker shall not exceed 150 TPH.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., and Permit No. 7775355-001-AC]

A.2. Methods of Operation. Silo loading shall not be conducted without the operation of a properly installed, operated and maintained baghouse. The baghouse shall be operated and maintained in accordance with the manufacturer's recommendations. Tanker truck loading shall not occur without an appropriate loading spout seal and operational dust return system. [Rules 62-4.160(2), 62-210.200(PTE), F.A.C., and Permit No. 7775355-001-AC]

A.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

A.4. Visible emissions from the fly ash silo baghouse shall not be equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 % opacity). [Rule 62-296.320(4)(b), F.A.C., and Permit No. 7775355-001-AC]

{Permit Note: The fly ash silo baghouse is subject to the General VE Standard – Rule 62-296.320(4)(b), F.A.C. However, opacity greater than 5% from this dust collector may suggest the presence of unacceptable operational problems.}

Test Methods and Procedures

A.5.a. Visible Emissions tests are required to show compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. The visible emissions tests shall be conducted in accordance with EPA Method 9 for thirty minutes. Such tests shall be scheduled annually during the federal fiscal year (October 1 – September 30). The Department shall be notified at least 15 days prior to testing to allow witnessing. Results shall be submitted to the Department within 45 days after testing. Notification of compliance testing and completed test reports may be submitted by electronic mail to nwdair@dep.state.fl.us. [Rules 62-4.070, 62-297.310(7), and 62-297.401(9), F.A.C.]

A.5.b. The test reports shall comply with applicable portions of Rule 62-297.310, F.A.C., Test Reports. The Department can require special compliance tests in accordance with Rule 62-297.310(7), F.A.C. Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing. [Rules 62-297.310(7) and 62-297.620(1), F.A.C.]

A.5.c. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department. [Rules 62-297.310(2) and 62-4.070, F.A.C.]

Recordkeeping

A.6. The owner or operator shall maintain records to document the monthly and 12-month rolling total of fly ash distributed through this facility. Non-hazardous verification records shall be available for each specific source of fly ash received. These records shall be maintained at the terminal and made available upon request for at least five years. [Rules 62-4.070, F.A.C., and Permit No. 7775355-001-AC]

{Permitting Note: The Department does not expect the facility to have a verification record for each shipment, but rather a record that the fly ash from each specific source (coal-fired combustion source) is non-hazardous. Therefore, if the terminal's source of fly ash changes or significant changes occur at the source (i.e. significant air pollution control equipment installed) a new non-hazardous verification record should be available.}

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions", and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted for the purpose of:

a. Have access to and copy any records that must be kept under conditions of this permit;
b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,
c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. A description of and cause of noncompliance; and
b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages that may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurement;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used;
- the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.