FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803

RICK SCOTT
GOVERNOR

JENNIFER CARROLL
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

Electronically Sent- Received Receipt Requested

FINAL PERMIT

PERMITTEE

Hanson Slag Cement, Inc.
575 Cargo Road
Cape Canaveral, Florida 32920

Authorized Representative:
Mr. Charles Piwowarski,
South Region Environmental Manager

Air Permit No. 0090209-008-AF
Permit Expires: 12/30/2017
Site Name: Cape Canaveral Facility
Federally Enforceable State Operation Permit (Synthetic Minor Source)
Project Name: FESOP Renewal

This is the final Federally Enforceable State Operation Permit (FESOP), which authorizes the operation of a granulated slag grinding facility equipped with flash dryer and separator/ball mill. The Cape Canaveral Facility (Standard Industrial Classification No. 3241) is located in Brevard County at 575 Cargo Road in Cape Canaveral, Florida. The UTM coordinates are Zone 17, 537.74 km East, and 3143.11 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Facility-wide and Emissions Unit Specific Conditions

Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of final permit. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication

of the public notice or within fourteen days of receipt of this notice of final permit, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301 of the Florida Administrative Code.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000,

and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Orange County, Florida

December 14, 2012

Caroline D. Shine
District Air Program Administrator
Central District

Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Charles Piwowarski, South Region Environmental Manager, Lehigh Hanson (**charles.piwowarski@hanson.com**)
Mark Anthony Esolen, Plant Manager, Hanson Slag Cement (**mark.esolen@hanson.com**)
Aubrey Jones, Senior Consultant, Trinity Consultants (**ajones@trinityconsultants.com**)

Clerk Stamp

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

_____ December 14, 2012
(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The existing facility consists of the following emissions units.

Facility ID No. 0090209	
ID No.	Emission Unit Description
001	Flash Dryer–The flash dryer includes one (1) 45 MMBtu/hr. natural gas-fired burner. Unprocessed raw slag and gypsum are delivered to the Cape Canaveral facility via ships and vessels. Trucks and front-end loaders (FEL) transport the material to storage piles. The unprocessed raw slag and gypsum have a minimum moisture content of approximately 8.5 percent and 3.0 percent, respectively, which inherently minimizes fugitive PM from material handling and storage pile wind erosion. Front-end loaders transfer the material from the storage piles to a hopper, which feeds the material to an open conveyor. The material is then conveyed to the processing building where the material moisture content is reduced by the natural gas-fired dryer. **PM emissions from the flash dryer are controlled by a dedicated baghouse.** Once dried, the material is transferred via conveyor to a separator and ball mill.
002	Separator/Ball Mill–The separator and ball mill grinds dried slag and gypsum into a fine powder. **The ball mill is equipped with a baghouse to control PM emissions from the grinding process.** The facility is permitted to produce up to 946,080 tons (dry) of granulated slag per consecutive 12-month period.

NOTE: *Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.*

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility is a synthetic minor source.

PERMIT HISTORY/AFFECTED PERMITS

Renews Federally Enforceable State Operation Permit 0090209-007-AF.

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Air Resource Management Section. The Central District's mailing address and phone number is:

   Florida Department of Environmental Protection
   Central District Office
   Air Resource Management Section
   3319 Maguire Blvd., Ste. 232
   Orlando, FL 32803-3767
   Telephone: 407-897-4100

   All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Air Resource Management Section (see above mailing address and phone number).

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;
   b. Appendix B. General Conditions;
   c. Appendix C. Common Conditions; and
   d. Appendix D. Common Testing Requirements

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modifications: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility. [Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report: On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in

accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority. [Rule 62-210.370(3), F.A.C.]

8. Application for Operation Permit Renewal Application: A completed application for renewal of the operation permit shall be submitted to the Permitting Authority no later than 60 days prior to the expiration date of the operation permit. To properly apply for an operation permit, the applicant shall submit the following:

   a. the appropriate permit application form *(see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: http://www.dep.state.fl.us/air/)*;

   b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;

   c. copies of the most recent compliance test reports required by Specific Condition No. **A.7**, if not previously submitted; and,

   d. copies of the most recent two months of records/logs specified in Specific Condition No(s). **A.14**.

   [Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

A. EU 001 – Flash Dryer, EU 002 – Separator/Ball Mill

This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
001	Flash Dryer
002	Separator/Ball Mill (Grinding Ball Mill)

PERFORMANCE RESTRICTIONS

A.1. Restricted Operation: The hours of operation of are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

A.2. Permitted Capacity: The permitted maximum production rate is 946,080 tons (dry) of material per any consecutive twelve-month period.
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

A.3 Circumvention: No person shall circumvent any pollution control device or allow the emissions of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]

{Permitting Note: See Appendix C., Common Conditions, Condition No. 2.}

A.4. Unconfined Particulate Emissions: All reasonable precautions shall be taken to prevent emissions of unconfined particulate matter. Reasonable precautions shall include, but not be limited to, the following:

a) Application of water when necessary to control emissions.

b) Removal of particulate matter from roads and other paved areas under control of the owner or operator to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.

c) Enclosure or covering of conveyor systems.

d) Use or spray or chute to mitigate emissions at the drop point.

[Rule 62-296.320(4)(c), F.A.C.]

EMISSIONS STANDARDS

A.5. Visible Emissions Limitation: Visible emissions from the flash dryer and the separator/ball mill shall not exceed 5 percent opacity. [Rule 62-297.620(4), F.A.C.]

A.6. Objectionable Odor Prohibited: No person shall cause, suffer, or allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. An objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

TESTING REQUIREMENTS

A.7. Compliance Tests: During each federal fiscal year (October 1st to September 30th), the flash dryer and the separator/ball mill shall be tested to demonstrate compliance with the emissions standard for visible emissions (Condition **A.5.**). [Rules 62-4.070(3) and 62-297.310, F.A.C.]

A.8. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

A.9. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
EPA 9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

A.10. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. The maximum operation rate for the flash dryer is 108 tons (dry) per hour of material. The maximum operation rate for the separator/ball mill (grinding ball mill) is 108 tons (dry) per hour of material. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent 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 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

A.11. Reports of the required compliance tests shall be filed with the air compliance section of this office as soon as practical but no later than 45 days after the last test is completed.
[Rule 62-297.310(8)(b), F.A.C.]

{Permitting Note: See Appendix D., Common Testing Conditions, Condition No. 5.}

NOTIFICATION REQUIREMENTS

A.12. Test Notification: The permittee shall notify the Compliance Authority, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee.
[Rules 62-4.070(3) and 62-297.310(7)(a)9, F.A.C.]

RECORDS AND REPORTS

A.13. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310(8), F.A.C.]

A.14. Monthly Recordkeeping Requirements: In order to demonstrate compliance with Specific Condition Nos. **A.2. and A.10.**, the permittee shall maintain a log at the facility for a period of at least five (5) years from the date the data is recorded and made available to the Department upon request. The log shall contain the following:

a. Facility Name, Facility ID No. (i.e., 0830138), and the **Emission Unit No. (i.e., EU 001 and EU 002)**;
b. Month and year of record;
c. Consecutive 12-month total of facility production rate (dry); and
d. Average monthly short-term production rate measured in tons/hr. (dry).

The monthly logs shall be completed by the end of the following month.

Note: A consecutive 12 month total is equal to the total for the month in question plus the totals for the eleven months previous to the month in question. A consecutive 12-month total treats each month of the year as the end of a 12-month period. A 12-month total is not a year-to-date total. Facilities that have not been operating for 12 months should retain 12 month totals using whatever number of months of data are available until such a time as a consecutive 12 month total can be maintained each month.
[Rule 62-4.070(3), F.A.C.]

A.15. Renewal: At least sixty days prior to the expiration date of this operation permit, the permittee shall apply for a renewal of this permit by submitting to this office the appropriate permit application form and the appropriate application processing fee.
[Rule 62-4.090, F.A.C.]

{Permitting Note: Please see related requirement, Section 2., Administrative Requirements, Requirement No. 8. on page 6 of 9 of this permit.}