



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

RICK SCOTT
GOVERNOR

JENNIFER CARROLL
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

Electronic Mail – Received Receipt Requested

FINAL PERMIT

PERMITTEE

Gate Precast Company
810 Sawdust Trail
Kissimmee, FL 34744

Authorized Representative:
Mr. Bryant Luke, VP Operations

Air Permit No. 0970074-007-AO
Permit Expires: 11/30/2017
Site Name: Gate Precast-Kissimmee
Minor Source Air Operation Permit
Project Name: Initial Air Operation Permit

This is the final air operation, which authorizes operation of two concrete batch plants and blasting operations. The Gate Precast-Kissimmee facility (Standard Industrial Classification No. 3273) is located in Osceola County at 810 Sawdust Trail in Kissimmee, Florida. The UTM coordinates are Zone 17, 461.16 km East, and 3134.05 km North.

This final permit has been 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. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, 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 (Mail Station #35, 3900 Commonwealth Boulevard, 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 30 days after this order is filed with the clerk of the Department.

Executed in Orange County, Florida



November 5, 2012

Caroline D. Shine
District Air Program Administrator
Central District

Effective Date

CERTIFICATE OF SERVICE

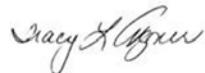
The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on November 5, 2012 to the persons listed below.

Mr. Bryant Luke, Gate Precast Company (**bluke@gateprecast.com**)

Mr. Stephen Alexander, P.E., Whitmer Environmental Services (**steveair57@yahoo.com**)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on
this date, pursuant to Section 120.52(7), Florida
Statutes, with the designated agency clerk, receipt
of which is hereby acknowledged.



November 5, 2012

(Clerk)

(Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY AND PROJECT DESCRIPTION

Gate Precast-Kissimmee

The facility is a concrete batching plant that manufactures concrete, architectural panels for building cladding.

The existing facility consists of the following emissions units:

Facility ID No. 0970074	
ID No.	Emission Unit Description
001	(2) Concrete Batch Plants with Baghouses
002	Blasting Operation

Project Description and Proposed Emission Units

This project is the initial air operation permit for the facility. It incorporates the conditions of air construction permit No. 0970074-005-AC.

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.

PERMIT HISTORY/AFFECTED PERMITS

Replaces Permit No. 0970074-005-AC.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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. 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:

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

- 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. a copy of the most recent compliance test report(s) required by Specific Condition No. **A.11.**, if not previously submitted; and
- d. copies of the most recent two months of records/logs specified in Specific Condition No(s). **A.12.** and **B.7.**

The application shall be submitted to the Permitting Authority.

[Rules 62-4.030, 62-4.050, and 62-4.220, F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001-Two Concrete Batch Plants with Baghouses and Facility-Wide Conditions

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
001	<p>This emissions unit consists of two (2) concrete batch plants that process aggregate, sand, and cement:</p> <ul style="list-style-type: none">– Batch Plant No. 1: A 50-ton silo for white and gray cement used in facing; and– Batch Plant No. 2: Two (2) 50-ton silos for gray cement used in backing. <p>Particulate matter (PM) emissions from the cement operations are controlled with a baghouse.</p> <p>Batch plants produce wet concrete. The concrete is conveyed to the Manufacturing Building. The concrete is poured into forms and made into panels. The completed panels are cured on a concrete pad under shelter at the east end of the Manufacturing Building. Afterwards, the panels are moved to the blasting area where they are blasted.</p>

PERFORMANCE RESTRICTIONS

- A.1. Permitted Capacity:** The maximum process rate for each material processed shall not exceed the following:

Material	Process Rate (tons/any consecutive 12-month period)
Aggregate	20,400
Sand	12,000
Cement	6,600

[Rule 62-210.200(PTE), F.A.C.]

- A.2. Restricted Operation:** The hours of operation for the concrete batch plants are limited to 3,120 hours per year. [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]
- A.3. Circumvention:** The permittee shall not circumvent the facility air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]

EMISSIONS STANDARDS

- A.4. Visible Emissions (VE) Limitation:** Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity. Visible emissions from the facility, excluding concrete batch plants, are limited to less than 20 percent opacity. [Rule 62-296.414 and 62-296.320(4)(b)1., F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001-Two Concrete Batch Plants with Baghouses and Facility-Wide Conditions

- A.5. Unconfined Emissions:** The owner or operator shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards. Reasonable precautions may include, but are not limited to, the following:
- a) Paving and maintenance of roads, parking areas, and yards.
 - b) Application of water or environmentally safe dust-suppressant chemicals, when necessary, to control emissions.
 - c) Use of paving or other asphaltic materials.
 - d) Removal of particulate matter from paved roads and/or other paved areas by vacuum cleaning or wetting prior to sweeping.
 - e) Covering of trucks, trailers, front-end loaders and other vehicles or containers to prevent spillage of particulate matter during transport.
 - f) Use of mulch, hydro seeding, grassing and/or other vegetative ground cover on barren areas to prevent or reduce particulate matter from being windblown.
 - g) Use of hoods, fans, filters and similar equipment to contain, capture and vent particulate matter.
 - h) Enclosure or covering of conveyor systems.
 - i) Removal of particulate matter from roads and other paved areas under control of the permittee to mitigate reentrainment, and from building or work areas to reduce airbourne particulate matter.
 - j) Reduction of stockpile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stockpiles if needed.
 - k) Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rules 62-296.320(4)(c) and 62-296.414, F.A.C.]

TESTING REQUIREMENTS

- A.6. Compliance Tests:** During each federal fiscal year (October 1st to September 30th), the baghouses for the emissions units shall be tested to demonstrate compliance with the emissions standards for visible emissions specified in Specific Condition No. **A.4.**

[Rules 62-4.070(3), 62-297.310(7)(a)1, and 62-296.414, F.A.C.]

- A.7. 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.8. Test Method:** Required tests shall be performed in accordance with the following reference method.

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

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001-Two Concrete Batch Plants with Baghouses and Facility-Wide Conditions

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.9. Operating Rate During Testing:** Visible emissions tests of the baghouse shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the batching operation are also controlled by the baghouse, the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration.
[Rule 62-296.414(3)(c), F.A.C.]

NOTIFICATION REQUIREMENTS

- A.10. 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 owner or operator. [Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

- A.11. 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. **Each test report shall include the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.**
[Rules 62-297.310(8) and 62-296.414, F.A.C.]
- A.12. Monthly Log:** In order to document continuing compliance with Specific Condition Nos. **A.1.** and **A.2.**, the following monthly records shall be kept:
- a) Facility name, Facility ID No., Emission unit ID No. and Description (i.e., EU 001, Concrete Batch Plant with Baghouse);
 - b) Date (Month and Year of record);
 - c) The total monthly process rate for each material processed (in tons), including aggregate, sand, and cement;
 - d) A cumulative total process rate for each material (in tons), including aggregate, sand, and cement, for the most recent consecutive 12-months period; and
 - e) Total hours of operation (monthly total).

Monthly records shall be completed by the end of the following month.

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001-Two Concrete Batch Plants with Baghouses and Facility-Wide Conditions

Note: A consecutive 12 months 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-months total treats each month of the year as the end of a 12-months period. A 12-months total is not a year-to-date total. Facilities or emission units that have not been operating for 12 months should retain 12 months totals using whatever number of months of data are available until such a time as a consecutive 12 months total can be maintained each month.

[Rule 62-4.070(3) F.A.C.]

- A.13. Records Retention** – All records shall be recorded in a permanent form suitable for inspection by the Department upon request and shall be kept at the facility for a minimum of the most recent five (5) year period.

[Rule 62-4.070(3), F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU No. 002-Blasting Operations

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
002	<p>The sandblasting operations are conducted on the cured concrete architectural panels. A 30-ft. high blast screen is being constructed at the southwest corner of the blasting operations to contain fugitive emissions.</p> <p>After blasting, the finished panels are inspected then moved to the Finished Storage Area. If panels resemble minor defects, they are repaired on the blasting racks through “wet patch” or using wet concrete and then moved to the Finished Storage Area.</p>

PERFORMANCE RESTRICTIONS

- B.1.** Permitted Capacity: The maximum process rate for the sandblasting operations shall not exceed 1,500 tons of sand per any consecutive 12-month period.
[Rule 62-210.200(PTE), F.A.C.]
- B.2.** Restricted Operation: The hours of operation for sandblasting operations are limited to 2,080 hours per any consecutive 12-months period.
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

- B.3.** Visible Emissions (VE) Limitation: Visible emissions from the emission unit are limited to less than 20 percent opacity. However, in order to provide reasonable assurance that the blast screen and other equipment being used are operated properly, visible emissions shall not exceed 15 percent opacity. If this value is exceeded (15 percent opacity), it will not be considered a violation in and of itself, if the opacity is still less than 20 percent, but may indicate that additional control methods, procedures, or training are necessary.
[Rules 62-4.070(3) and 62-296.320(4)(b)1., F.A.C.]

TESTING REQUIREMENTS

- B.4.** Compliance Tests: The emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions (Specific Condition No. **B.3.**) at least ninety (90) days prior to the expiration date of this permit. The test period shall be 30 minutes.
[Rules 62-4.070(3), 62-297.310(7)(a)1, and 62-296.414, F.A.C.]
- B.5.** 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.]
- B.6.** Test Method: Required tests shall be performed in accordance with the following reference method.

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU No. 002-Blasting Operations

Method	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]

RECORDS AND REPORTS

B.7. Monthly Log: In order to document continuing compliance with Specific Condition Nos. **B.1.** and **B.2.**, the following monthly records shall be kept:

- Facility name, Facility ID No., Emission unit ID No. and Description (i.e., EU 002, Blasting Operations);
- Date (Month and Year of record);
- The total monthly amount of sand used in the sandblasting process (in tons);
- A cumulative total amount of sand used in the sandblasting process during the most recent consecutive 12-months period (in tons); and
- Total hours of operation (monthly total) for sandblasting operations.

Monthly records shall be completed by the end of the following month.

Note: A consecutive 12 months 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-months total treats each month of the year as the end of a 12-months period. A 12-months total is not a year-to-date total. Facilities or emission units that have not been operating for 12 months should retain 12 months totals using whatever number of months of data are available until such a time as a consecutive 12 months total can be maintained each month.

[Rule 62-4.070(3) F.A.C.]

B.8. Records Retention – All records shall be recorded in a permanent form suitable for inspection by the Department upon request and shall be kept at the facility for a minimum of the most recent five (5) year period.

[Rule 62-4.070(3), F.A.C.]