Florida Department of Environmental Protection

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FINAL PERMIT

PERMITTEE

Colored Aggregate Systems, Inc.
P.O. Box 490180
Leesburg, Florida 34749-0180

Authorized Representative:
Mr. Robert Kari, Projects Manager

Air Permit No. 0694862-002-AC
Permit Expires: 09/30/2013
Site Name: Okahumpka Colored Aggregate System
Minor Source Air Construction Permit
Project Name: Aggregate Drying and Handling Operations

This is the final air construction permit, which authorizes construction of an aggregate drying and handling operation with a baghouse. The proposed work will be conducted at Okahumpka Colored Aggregate System (Standard Industrial Classification No. 1442). The facility is located in Lake County at 26825 Haywood Worm Farm Road in Okahumpka, Florida. The UTM coordinates are Zone 17, 413.28 km East, and 3179.29 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. 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

December 30, 2011

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 December 30, 2011 to the persons listed below.

Mr. Robert Kari, Colored Aggregate Systems, Inc. **(bkari@cmineralsinc.com)**
Ms. Veronica N. Sgro, P.E., Koogler and Associates, Inc. **(vsgro@kooglerassociates.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.

Digitally signed by Tracy L Agner
DN: cn=Tracy L Agner, o=Central District, ou=FDEP, email=tracy.agner@dep.state.fl.us, c=US
Date: 2011.12.30 15:20:19 -05'00'

December 30, 2011

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Okahumpka Colored Aggregate System Facility

This facility is an aggregate material handling facility. This facility colors dried aggregate and pigments which are then dried onto the aggregate, screened, and packaged. The aggregate material includes construction sand and sodium silicate.

The existing facility consists of the following emissions units.

Facility ID No. 0694862	
ID No.	Emission Unit Description
001	Aggregate Color Coating Operations with Baghouse

Project Description and Proposed Emission Unit

This project is for the construction of an aggregate drying and handling operation. This operation will consist of a dryer, conveyors, a silo, screening operations, and bagging operations. Aggregate materials include construction sand. The finished product may be considered industrial or construction sand.

This project will create the following emissions unit.

Facility ID No. 0694862	
ID No.	Emission Unit Description
002	**Aggregate Drying (Industrial Sand Dryer) and Handling Operations with Baghouse** Aggregate materials include construction sand. A baghouse will control emissions from dryer, screening operations, and bagging operations. Shrouds will be constructed to cover each drop point to collect dust from operations. The collected solid particles from the baghouse will be stored in a bin for recycling and the clean air discharged outside. **The Dryer produces both construction and industrial sand, making it subject to 40 CFR 60, Subpart UUU.**

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.
- The Emission Unit (002) is subject to 40 CFR Part 60, Subpart A, General Provisions and 40 CFR Part 60, Subpart UUU-Standards of Performance for Calciners and Dryers in Mineral Industries.

PERMIT HISTORY/AFFECTED PERMITS

The applicant holds another air construction permit, No. 0694862-001-AC, for Emission Unit 001.

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;
   d. Appendix D. Common Testing Requirements;
   e. Appendix E. 40 CFR Part 60, Subpart A-General Provisions; and
   f. Appendix F. 40 CFR Part 60, Subpart UUU-Standards of Performance for Calciners and Dryers in Mineral Industries.

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. Application for Non-Title V Air Operation Permit: This permit authorizes construction or modification of the permitted emissions unit(s) and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for continued operation of the permitted emissions unit(s). The permittee shall apply for a Non-Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Non-Title V air 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. a copy of the initial compliance test required by Specific Condition No. **A.8.** and **A.9.**; and

    d. copies of the most recent two months of records/logs specified in Specific Condition Nos. **A.16.** and **A.18**.

    The application shall be submitted to the Permitting Authority.

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

A. EU No. 002- Aggregate Drying (Sand Dryer) and Handling Operations with Baghouse

ID No.	Emission Unit Description
002	**Aggregate Drying (Industrial Sand Dryer) and Handling Operations with Baghouse** Aggregate materials include construction sand. A baghouse will control emissions from dryer, screening operations, and bagging operations. Shrouds will be constructed to cover each drop point to collect dust from operations. The collected solid particles from the baghouse will be stored in a bin for recycling and the clean air discharged outside. **The Dryer produces both construction and industrial sand, making it subject to 40 CFR 60, Subpart UUU.**

PERFORMANCE RESTRICTIONS

A.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR Part 60, Subpart A- General Provisions and 40 CFR Part 60, Subpart UUU– Standards of Performance for Calciners and Dryers in Mineral Industries, which are adopted by reference in Rule 62-204.800, F.A.C. The conditions are incorporated into this permit **(attached and part of this permit- please see Appendix F).** § 60.733 and § 60.734(c) of 40 CFR Part 60, Subpart UUU are listed below also.

§ 60.733 Reconstruction.

The cost of replacement of equipment subject to high temperatures and abrasion on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital cost that would be required to construct a comparable new facility" under §60.15. Calciner and dryer equipment subject to high temperatures and abrasion are: end seals, flights, and refractory lining.

§ 60.734 Monitoring of emissions and operations.

(c) The owner or operator of a ball clay rotary dryer, a diatomite rotary dryer, a feldspar fluid bed dryer, a fuller's earth rotary dryer, a gypsum rotary dryer, a gypsum flash calciner, gypsum kettle calciner, an industrial sand rotary dryer, a kaolin rotary dryer, a kaolin multiple hearth furnace, a perlite expansion furnace, a talc flash dryer, a talc rotary dryer, a titanium dioxide direct or indirect rotary dryer or a vermiculite expansion furnace who uses a dry control device is exempt from the monitoring requirements of this section.

[Rule 62-204.800(8), F.A.C.]

A.2. Permitted Capacity: The maximum process rate of wet aggregate material processed shall not exceed 438,000 tons per consecutive 12 months period.
[Rule 62-210.200(PTE), F.A.C.]

A.3. Authorized Fuel: The main rotary dryer burner is permitted to only burn natural gas.
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

A.4. Restricted Operation: The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

A.5. Visible Emissions: Visible emissions (VE) from the dryer/baghouse shall not exceed ten (10) percent opacity. [§ 60.732(b) of 40 CFR 60, Subpart UUU; Rules 62-204.800(8)(b)73. and 62-4.070, F.A.C.]

A.6. Particulate Matter (PM) Emissions: Particulate matter emissions from the dryer/baghouse shall not exceed 0.025 grain/dry standard cubic feet (gr/dscf).
[§ 40 CFR 60.732(a) of 40 CFR 60, Subpart UUU; Rules 62-204.800(8)(b)73. and Rule 62-4.070, F.A.C.]

A.7. Unconfined PM Emissions: 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 (See Appendix C., Condition No. 9).
[Rules 62-210.300(3)(c)2.e. and 62-296.320(4)(c), F.A.C.]

TESTING REQUIREMENTS

A.8. Initial Compliance Test for Visible Emissions: The dryer/baghouse shall be tested to demonstrate initial compliance with the emissions standard for visible emissions in Specific Condition **A.5.** The initial test shall be conducted no later than 180 days after initial operation of the unit.
[§ 60.736 (b)(2) of 40 CFR Part 60, Subpart UUU; and Rules 62-204.800(8)(b)73., 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

A.9. Initial Compliance Test for Particulate Emissions: The dryer/baghouse shall be tested to demonstrate initial compliance with the emissions standard for particulate matter emissions in Specific Condition **A.6.** The initial test shall be conducted no later than 180 days after initial operation of the unit.
[§ 60.736 (b)(1) of 40 CFR Part 60, Subpart UUU; and Rules 62-204.800(8)(b)73., 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

A.10. 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.11. Test Method: Required tests shall be performed in accordance with the following reference method.

EPA Method	Description of Method and Comments
5	Determination of Particulate Matter Emissions from Stationary Sources
9	Visual Determination of Opacity of Emissions from Stationary Sources

The above method is described in Rule 62-297.401 and 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.

§ 60.736 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.732 as follows:

(1) **Method 5** shall be used to determine the particulate matter concentration**. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm.**

(2) **Method 9** and the procedures in §60.11 shall be used to determine opacity from stack emissions.

[40 CFR 60.736 and Rules 62-204.800 and 62-297.401, F.A.C.]

MONITORING REQUIREMENTS

A.12. Baghouse Weekly check: Perform a weekly check, which includes the following:

a. Observe area directly above stack or as appropriate to determine the opacity of the plume; and
b. Observe pressure drop across baghouse (view manometer).

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

NOTIFICATION REQUIREMENTS

A.13. Test Notification. The permittee shall notify the Compliance Authority, at least **30 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. [40 CFR Part 60, Subpart A § 60.8(d) and Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

A.14. Notification of Initial Startup: The permittee shall submit a written notification to the Compliance Authority of the actual date of initial startup of Emission Unit No. 002

postmarked within 15 days after such date. [§ 60.7(a)(3) of 40 CFR Part 60, Subpart A and Rule 62-4.070(3), F.A.C.]

RECORDS AND REPORTS

A.15. 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.16. Monthly Recordkeeping: In order to document continuing compliance with Specific Condition Nos. **A.2.**, the following records shall be kept monthly:

a. Facility name, Facility ID No., Emission Unit ID No. and Description (i.e., EU 002, Aggregate Drying (Industrial Sand Dryer) and Handling Operations with Baghouse);
b. Month/Year of record; and
c. Consecutive twelve months total of total wet aggregate product processed (tons).

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

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 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. **The monthly logs shall be completed by the end of the following month.** 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 three (3) year period.
[Rule 62-4.070(3), F.A.C.]

A.17. Operation and Maintenance (O&M) Plan for Baghouse: The O&M Plan shall include, at a minimum, the following information:

a. Operating parameters of the pollution control device;
b. Schedule for the routine maintenance of the pollution control device as specified by the manufacturer; and
c. Schedule for routine observations of the pollution control device sufficient to ensure proper operation.

The O&M Plan shall be retained onsite at all times.
[Rule 62-4.070(3), F.A.C.]

A.18. O&M Weekly Log for Baghouse: The O&M log shall include, at a minimum, the following information:

A. EU No. 002- Aggregate Drying (Sand Dryer) and Handling Operations with Baghouse

a. When maintenance and observations were performed (Date and Time);

b. What maintenance and observations were performed;

c. Who performed the maintenance and observations (Name of Person(s)); and

d. Acceptable parameter ranges for each operational check.

If no maintenance was performed on a particular date, indicate no maintenance was performed. These records shall be maintained at the facility for a minimum of the most recent three (3) year period and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]