



**TECHNICAL EVALUATION  
&  
PRELIMINARY DETERMINATION**

**APPLICANT**

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

Okahumpka Colored Aggregate System

Facility ID No. 0694862

**PROJECT**

Project No. 0694862-003-AO  
Application for Minor Source Air Operation Permit  
Project Name: Aggregate Color Coating Operations with Baghouse

**COUNTY**

Lake County, Florida

**PERMITTING AUTHORITY**

Florida Department of Environmental Protection  
Air Resource Management  
Central District Office  
3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767

March 6, 2012

Prepared by Jeffrey Rustin, P.E.

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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## GENERAL PROJECT INFORMATION

### Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources – Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

### Glossary of Common Terms

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

#### I. Project Description:

##### A. Applicant:

Mr. Robert Kari, Project Manager  
Colored Aggregate Systems, Inc.  
P.O. Box 490180  
Leesburg, Florida 34749-0180

##### B. Professional Engineer:

Ms. Veronica N. Sgro, P.E., Senior Engineer  
Koogler and Associates, Inc.  
4014 N.W. 13<sup>th</sup> Street  
Gainesville, Florida 32609

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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C. Project Location:

Okahumpka Colored Aggregate System  
26825 Haywood Worm Farm Road  
Okahumpka, Florida 34762

D. Project Summary:

This project is for the initial operation of **EU 001, Aggregate Color Coating Operations with Baghouse**. EU 002, Aggregate Drying (Industrial Sand Dryer) and Handling Operations with Baghouse, **is still under construction (Air Construction Permit No. 0694862-002-AC) as of February 29, 2012.**

Emission Unit 001, Aggregate Color Coating Operations with Baghouse, has been constructed. This emissions unit colors particles of dried aggregate. Pigments are dried onto the aggregate. The pigmented aggregate is then screened and packaged. Aggregate materials include construction sand and sodium silicate. Shrouds cover each of the drop points to collect dust from operations. Shrouds are connected to a baghouse through a series of duct channels. The collected solid particles from the baghouse are stored in a bin for recycling and the clean air discharged outside. The location of the dust collector is in the northwest corner of the building at the site.

Emission Unit 002, Aggregate Drying (Industrial Sand Dryer) and Handling Operations with Baghouse, **is still under construction (Air Construction Permit No. 0694862-002-AC) as of February 29, 2012.** 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.

E. Application Information:

Application Received on: 01/11/12  
Application Complete: 01/11/12

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

### II. Rule Applicability

Subject to:	Y/N	Comments
<b>Rule 62-212.400, F.A.C.</b> - Prevention of Significant Deterioration	N	Facility is not a PSD major source.
<b>Rule 62-296.320(4), F.A.C.</b> - General Particulate Emission Limiting Standards	Y	Facility is a source of unconfined particulate matter emissions.
<b>Rules 62-296.320(1) and (2), F.A.C.</b> - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	Facility is a source of VOC and odors, but VOC emissions are insignificant and odors from the facility should be insignificant.
<b>Rule 62-296.400, F.A.C.</b> - Stationary Source Emission Standards	N	There is no applicable source category.
<b>Rule 62-296.500, F.A.C.</b> - Reasonably Available Control Technology (VOC)	N	Lake County is an attainment area for ozone.
<b>Rule 62-296.700, F.A.C.</b> - Reasonably Available Control Technology (PM)	N	There is no applicable source category.
<b>Rule 62-204.800, F.A.C.</b> - Standards of Performance for New Stationary Sources (NSPS)	N	EU 001 is <b>not subject</b> to 40 CFR 60, Subpart UUU- Standards of Performance for Calciners and Dryers in Mineral Industries, because the EU 001 processes construction sand rather than industrial sand. EU 002 is subject to 40 CFR Part 60, Subpart A and 40 CFR Part 60, Subpart UUU; however, EU 002 is not part of this project (please see facility description listed above).
<b>Rule 62-204.800, F.A.C.</b> National Emission Standard for Hazardous Air Pollutants (NESHAPS - 40 CFR 61)	N	There is no applicable source category.
<b>Rule 62-204.800, F.A.C.</b> National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS - 40 CFR 63)	N	There is no applicable source category.
<b>Chapter 62-213, F.A.C.</b> - Operation Permits for Major Sources of Air Pollution	N	Facility is a non-Title V source. The facility is classified as a natural minor.
<b>Rule 62-297.310, F.A.C.</b> - General Compliance Test Requirements, F.A.C.	Y	Annual VE testing is required for the baghouse associated with EU No. 001.

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Plant Name: Okahumpka Colored Aggregate System

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### III. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
PM	001-Aggregate Color Coating Operations with Baghouse	0.9	
	<b>Total</b>	<b>0.9</b>	
VOC	001-Aggregate Color Coating Operations with Baghouse	0.0	
	<b>Total</b>	<b>0.0</b>	
NOx	001-Aggregate Color Coating Operations with Baghouse	0.3	
	<b>Total</b>	<b>0.3</b>	
SO2	001-Aggregate Color Coating Operations with Baghouse	0.0	
	<b>Total</b>	<b>0.0</b>	
CO	001-Aggregate Color Coating Operations with Baghouse	0.3	
	<b>Total</b>	<b>0.3</b>	
VE	001-Aggregate Color Coating Operations with Baghouse		5%

### V. Federal NSPS and/or NESHAP Provisions

EU 001 is **not subject** to 40 CFR 60, Subpart UUU- Standards of Performance for Calciners and Dryers in Mineral Industries, because the facility processes construction sand rather than industrial sand.

### VI. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

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### VII. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Central District, 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).