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. 0694862-002-AC
Application for Minor Source Air Construction Permit
Project Name: Aggregate Drying and Handling Operations

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

December 8, 2011
Revised December 29, 2011

Prepared by Jeffrey Rustin, P.E.

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.
Koogler and Associates, Inc.
4014 N.W. 13th Street

Gainesville, Florida 32609

C. Project Location:

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

D. Project Summary:

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.

E. Application Information:

Application Received on: 10/28/11
Application Complete: 10/28/11

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N	Comments
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	Facility is not a PSD major source.
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	Facility is a source of unconfined particulate matter emissions.
Rules 62-296.320(1) and (2), F.A.C. - 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.
Rule 62-296.400, F.A.C. - Stationary Source Emission Standards	N	There is no applicable source category.
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	Y	Dryer is subject to 40 CFR Part 60, Subpart A and 40 CFR Part 60, Subpart UUU.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants	N	There is no applicable source category.

Subject to:	**Y/N**	**Comments**
(NESHAPS – 40 CFR 61)		
Rule 62-204.800, F.A.C. 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.
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	N	Facility is a non-Title V source. The facility is classified as a natural minor.
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C. and **40 CFR Part 60, Subpart UUU**	Y	Initial PM and VE testing is required for the baghouse associated with EU No. 002.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
PM/PM10	002-Aggregate Drying and Handling Operations with Baghouse	**See below under Total (30.4)**	
PM/PM10	Baghouse	**2.8**	
PM/PM10	Conveyor Transfer Point – Screen Deck to Conveyor	**0.7**	
PM/PM10	Conveyor Transfer Point – Conveyor to Silo	**0.7**	
PM/PM10	Aggregate Storage – Silo	**26.3**	
PM/PM10	Natural Gas	**0.0**	
PM/PM10	**Total**	**30.4**	
SOX	Natural Gas	**0.0**	
NOX	Natural Gas	**0.3**	
CO	Natural Gas	**0.3**	
VOC	Natural Gas	**0.0**	
VE	002-Aggregate Drying and Handling Operations with Baghouse		**10 percent opacity**

The following table is the pollution emission summary for the other emission unit **(EU 001)** at the facility. It is not part of this project. The facility is a natural minor facility.

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

V. Federal NSPS and/or NESHAP Provisions

Emission Unit 002 **is subject** to 40 CFR 60, Subpart UUU- Standards of Performance for Calciners and Dryers in Mineral Industries.

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.

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).