



Florida Department of Environmental Protection

Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

FINAL PERMITS

PERMITTEE

Mosaic Fertilizer, LLC
P.O. Box 2000
Mulberry, FL 33860

Authorized Representative:

Mr. Gary N. Davis, Vice President
Minerals Operations

Air Permit Nos. 1050034-021-AC^a
1050034-020-AO^b

Permit Expires: 12/31/2010^a
11/19/2014^b

Site Name : Central Florida Mineral Operations
Minor Air Construction/Operation Permit
Project Name: Construction Permit Modification /
Operation Permit Renewal

This is the final air construction permit and final air operation permit in one document, which authorizes changing the permitting status of the boiler from regulated to exempt and revises the Title V Air Operation Permit No. 1050034-018-AV to a minor Air Operation Permit (AO) and renew it.

Mosaic Fertilizer, LLC, Central Florida Mineral Operations (Standard Industrial Classification No. 1475) operates a flocculation system at Four Corners Mine. The flocculation system is located approximately 150 ft north of Flour Corners Mine Road and 1.7 miles west of State Road 37 in Hillsborough County. The UTM coordinates are Zone 17, 392.96 km East, and 3058.55 km North. As noted in the Final Determination provided with this final permit, no changes or only minor changes and clarifications were made to the draft permit.

This document is organized by the following sections:

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. 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 Hillsborough County, Florida

Mara Grace Nasca December 21, 2009
Mara Grace Nasca Effective Date
District Air Program Administrator
Southwest District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permits 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 12/22/2009 to the persons listed below.

Gary N. Davis, Mosaic Fertilizer, LLC (Bo.Davis@mosaicco.com)
Scott A. McCann, P.E., Golder Associates Inc. (smccann@golder.com)
Rama Iyer, P.E., Mosaic Fertilizer, LLC (rama.iyer@mosaicco.com)
Ana M. Oquendo, EPA Region IV (oquendo.ana@epa.gov)

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.

Carol S. Moore 12/22/2009
(Clerk) (Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

Mosaic Fertilizer LLC - Central Florida Minerals Operations facility is located on contiguous property within four adjacent counties (Hillsborough, Manatee, Polk, and Hardee) and involves five sites: Fort Green, Four Corners, Kingsford, Lonesome and Noralyn.

There is no mining at Noralyn and Kingsford but Mosaic still has reclamation liability at these sites. Fort Green has a mini-washer and material mined from Fort Green and Payne Creek is processed through Four Corners, Wingate or Hookers Prairie. Lonesome is an active mine but the material mined is processed through Four Corners. Four Corners is an active mine with washer and float units.

Also included in this facility are five exempt sites: Agrock, Clear Springs, Payne Creek, Phosphoria and Pierce where Mosaic has varying degrees of reclamation liability, clay ponds and outfalls.

The existing facility consists of the following emission unit.

Facility ID No. 1050034	
ID No.	Emission Unit Description
029	Flocculation System - Four Corners Mine

Project Description and Affected/Proposed Emission Units

This is the air construction and air operation permit in one document, which authorizes changing the permitting status of the boiler from regulated to exempt and revises the Title V Air Operation Permit No. 1050034-018-AV to a minor air Operating Permit (AO) and renew it. This project will remove all the emission units that were in the Title V Operation Permit No. 1050034-018-AV except emission unit No. 029, located at Four Corners Mine.

This project will retain the following emissions unit

Facility ID No. 1050034	
ID No.	Emission Unit Description
029	Flocculation System - Four Corners Mine

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

SECTION 1. GENERAL INFORMATION (FINAL)

Exempt Emission Units/Activities

The below listed emission units and/or activities are considered exempt from permitting pursuant to Rules 62-4.040 and 62-210.300(3), F.A.C.

Rule 62-4.040 Exemptions:

- Mining Sites: Agrock, Clear Springs, Payne Creek, Phosphoria and Pierce.

Rule 62-210.300(3)(a) Exemptions:

- York-Shipley Boiler, Model No.SPHC-100-5 - 3.3 MMBtu/Hour maximum heat input
- Portable Electric Generators - 500 KW
- Fuel Heater
- Propane Boiler
- Brazing, Soldering and Welding.

Rule 62-210.300(3)(b) Exemptions:

- Wood Working Activities (i.e., saws, planners)

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 natural minor source of air pollution.

PERMIT HISTORY/AFFECTED PERMITS

Replaces all previous construction permits for this facility and Title V Permit No. 1050034-018-AV.

NOTE: This facility used to have many more emissions units located in five different mines. All regulated emissions units except the flocculation system at Four Corners Mine have been deactivated. Although the flocculation system is physically located in Hillsborough County, a new Hillsborough County facility ID will not be assigned at this time due to database issues. See email correspondence regarding this issue in the permitting file for this project.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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

Florida Department of Environmental Protection
Southwest District Office
Air Resource Management Section
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

All documents related to applications for permits to operate an emissions unit shall be submitted to the above address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications for Flocculation System - Four Corners Mine (E.U. 029) shall be submitted to the Southwest District (SWD) Office's 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 unit 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.
[Rule 62-210.300, F.A.C.]
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.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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:

- 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 month of record/log specified in Specific Condition No. A.9.

[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.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU Group Description

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
029	<p>The flocculation system consists of a storage silo with a baghouse, three screw conveyors which feed into four flash mix tanks, and a liquid delivery system (pumps and piping). Two screw conveyers are used to transfer the copolymer from the storage silo to the flash-mix tanks, which are located inside a building. The third screw conveyor is used to transfer copolymer from "super sacks" to the flash-mix tank. Each screw conveyor has a capacity to transfer up to 360 lbs per hr of copolymer.</p> <p>The system mixes the flocculent with water in the flash-mix tanks and then the mixture is pumped to the clay settling ponds.</p> <p>Flocculent (copolymer) is delivered by truck. The silo has a capacity of 120,000 lb. Emissions from the storage silo are controlled by a baghouse vented to the atmosphere.</p>

PERFORMANCE RESTRICTIONS

A.1. Permitted Capacity:

- a. The maximum copolymer silo loading rate shall not exceed 30.0 tons per hour.
- b. The maximum copolymer silo loading rate shall not exceed 4,000.0 ton per any consecutive 12-month period.

[Permit Application dated 12/30/2008; Rules 62-210.200(PTE) and 62-4.060(2) F.A.C.]

EMISSION STANDARDS

- #### A.2. Visible Emissions Standard: The permittee shall not circumvent any air pollution control device or allow the emissions of air pollutants without the applicable air pollution control devices operating properly. Unloading of copolymer and transfer to the storage silo shall not be conducted unless the silo baghouses are in service and operating properly. Visible emissions from the silo baghouse exhaust shall not exceed 5% opacity.

[Rule 62-296.711, F.A.C.; Hillsborough County EPC Rules 1-3.51 and 1-3.52]

TESTING REQUIREMENTS

- #### A.3. Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions (VE). Each VE test shall be a minimum of 30 minutes in duration.

[Rule 62-297.310(7)(a)4., F.A.C.]

- #### A.4. 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.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU Group Description

A.5. Test Method: Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
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]

NOTIFICATION REQUIREMENTS

A.6. Test Notification: The permittee shall notify the Compliance Authority (SWD) in writing at least 15 days prior to any required tests. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and the telephone number of the person conducting the test.

{Permitting Note: The notification should also include the relevant emission unit ID No(s), test method(s) to be used, and pollutants to be tested.}

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

A.7. 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.8. Silo Loading Log: In order to document compliance with Condition A.1., the permittee shall record the following each time the copolymer silo is loaded:

- a. The amount of material loaded into the silo, in tons.
- b. The start time of the material loading.
- c. The end time of the material loading.
- d. Calculate the material loading rate in tons per hour using the above three items.

The silo loading log must be completed by the 3rd business day and shall be retained at the facility for a minimum of three (3) years and shall be made available to the Compliance Authority (SWD) upon request.

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

A.9. Monthly Log: In order to document compliance with Specific Condition A.1., the permittee shall tabulate monthly for the flocculation system the total amount of material loaded into the silo and the current consecutive 12-month total of copolymer loaded, in tons. The monthly log shall be completed by the 10th day of the following month and retained at the facility for at least three (3) years and shall be made available to the Compliance Authority (SWD) upon request.

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