Florida Department of Environmental Protection

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2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE

Mosaic Fertilizer, LLC
Bartow Facility

Authorized Representative:
Mr. Jeraud Dominic, General Manager

Permit No. 1050046-050-AC
Permit Expires: October 31, 2019

Project: Minor Source Air Construction Permit
1-hour SO_2 NAAQS Compliance

Polk County, Florida

PROJECT

This is the final air construction (AC) permit, which authorizes sulfuric acid plant numbers 4, 5 & 6 to comply with the U.S. EPA's 2010 1-hour sulfur dioxide (SO_2) National Ambient Air Quality Standard (NAAQS) final rule (Project). This facility is an existing phosphate fertilizer manufacturing facility categorized under Standard Industrial Classification No. 2874. The existing Bartow Facility is in Polk County at 3200 Highway 60 West in Bartow, Florida. UTM coordinates are: Zone 17, 409.77 East and 3087.26 North. Latitude is: 27° 54' 25.938" North; and, Longitude is: 81° 55' 0.9691" West.

This final permit is organized into the following sections: Section I (General Information), Section II (Requirements); and, Section III (Emission(s) Unit(s) Specific Conditions). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section IV of this permit. [As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.]

STATEMENT OF BASIS

This air pollution construction 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.). This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is <u>not</u> 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 Tallahassee, Florida

David Lyle Read, P.E.
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For:

Syed Arif, P.E., Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

SA/dlr/sms

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) 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 the date indicated below to the persons listed below.

Mr. Jeraud Dominic, Mosaic Fertilizer, LLC: jerry.dominic@mosaicco.com
Mr. Rama K. Iyer, P.E., Mosaic Fertilizer, LLC: rama.iyer@mosaicco.com
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Mr. Hastings Read, DEP OBP: hastings.read@dep.state.fl.us
Ms. Lynn Scearce, DEP OPC: lynn.scearce@dep.state.fl.us
U.S. EPA Region 4: R4TitleVFL@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.

Lynn Scearce

2017.07.03 09:38:35
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FACILITY DESCRIPTION

This existing facility consists of one phosphoric acid plant (two trains), one monoammonium phosphate/ diammonium phosphate (MAP/DAP) plant, one DAP fertilizer plant, three sulfuric acid plants, two fertilizer shipping plants, an auxiliary boiler and a molten sulfur storage and handling system.

Also included at this facility are miscellaneous insignificant emissions units and/or activities.

This project will affect the following *existing* permitted emissions units:

E.U. ID No.	Brief Description
012	No. 4 Sulfuric Acid Plant
032	No. 6 Sulfuric Acid Plant
033	No. 5 Sulfuric Acid Plant

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- This facility does not operate units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

PROPOSED PROJECT

This minor source air construction (AC) permit is for the sulfuric acid plant numbers 4, 5 & 6 to comply with the U.S. EPA's 2010 1-hour sulfur dioxide (SO_2) National Ambient Air Quality Standard (NAAQS) final rule.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Minor Source Air Construction Permit Application received on June 9, 2017 (complete).

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance, Division of Air Resource Management, Florida Department of Environmental Protection (Department). The mailing address for the Office of Permitting and Compliance is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.

2. Compliance Authority: All documents related to compliance activities, such as reports, tests, and notifications, shall be submitted to the Compliance Authority. The Compliance Authority is listed on the cover page of the Title V air operation permit.

3. Appendices. The following Appendices are attached as part of this permit:
   a. Appendix A. Citation Formats and Definitions;
   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 & 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. The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) & 62-212.300(1)(a), F.A.C.]

7. Source Obligation. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]

8. Construction. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Office of Permitting and Compliance prior to the expiration of this permit. [Rules 62-210.300(1), 62-4.070(4) 62-4.080, and 62-4.210, F.A.C.]

This subsection of the permit addresses the following emission units:

E.U. ID No.	Brief Description
012	No. 4 Sulfuric Acid Plant
032	No. 6 Sulfuric Acid Plant
033	No. 5 Sulfuric Acid Plant

This permit is for the addition of an SO_2 emission limit applicable to Sulfuric Acid Plant Nos. 4, 5 & 6. This emission limit is based on an allowable SO_2 emissions rate that demonstrates compliance with the U.S. Environmental Protection Agency's (U.S. EPA's) 2010 1-hour sulfur dioxide (SO_2) National Ambient Air Quality Standard (NAAQS) final rule. Compliance with the new SO_2 emission limit shall occur on or before **August 31, 2019**.

No new or modified equipment (physical changes) or changes in methods of operation associated with this project (SO_2 emission limit addition) are authorized under this permit. No changes are authorized to any of the sulfuric acid plant stacks, e.g., stack height, diameter.

PREVIOUS APPLICABLE REQUIREMENTS

1. Effect on Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for these emissions units. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulations. [Rule 62-4.070(1)&(3), *Reasonable Assurance*, F.A.C.]

PERMITTED CAPACITIES

2. Permitted Capacities: The permitted capacities of the SAPs shall remain the same. [Application No. 1050046-050-AC; and, Rule 62-4.070(1)&(3), *Reasonable Assurance*, F.A.C.]

SO_2 EMISSION LIMIT

3. SO_2 Emission Limit: The following SO_2 emission limit applies to the Sulfuric Acid Plant (SAP) Nos. 4, 5 & 6:
   a. When all three SAPs are in operation within the same 24-hour block averaging period, a cap of 1,100 lb SO_2/hour, 24-hour block average (6:00 a.m. to 6:00 a.m.) is applicable; and,
   b. The cap of 1,100 lb SO_2/hour, 24-hour block average (6:00 a.m. to 6:00 a.m.) applies in scenarios when any combination of any number of the SAPs are not in operation and when any number of the SAPs are in operation.

   Any requested revisions to this emission limit requires air dispersion modelling review and written approval from the Department's Meteorology and Air Modeling Section in the Office of Business Planning to confirm SO_2 NAAQS compliance. [Rule 62-4.030, *General Prohibition*, F.A.C.; and, Rule 62-4.210, *Construction Permits*, F.A.C.; and, Application No. 1050046-050-AC.]

COMPLIANCE REQUIREMENTS

4. Initial Compliance: These emission units shall use certified SO_2 CEMS data to demonstrate initial compliance with the new SO_2 emission limit. [Rules 62-4.070(1)&(3), *Reasonable Assurance*, F.A.C.; and, Application No. 1050046-050-AC.]

5. Recordkeeping: The permittee shall keep records of the initial compliance demonstration. The records shall include the SO_2 CEMS data along with the sulfuric acid production rate (TPH, tons per hour) during the demonstration. Any reports shall be prepared in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(10), F.A.C.; and, Application No. 1050046-050-AC.]