Mosaic Fertilizer, LLC
New Wales Facility
Title V Operation Permit Revision
Permit No. 1050059-083-AV

APPLICANT

The applicant for this project is Mosaic Fertilizer, LLC. The applicant's responsible official and mailing address are: Mr. Ronald Yasurek, Plant Manager, Mosaic Fertilizer, LLC, New Wales Facility, 13830 Circa Crossing Drive, Lithia, FL 33547.

FACILITY DESCRIPTION AND LOCATION

The applicant operates the existing New Wales Facility, which is located in Polk County at 3095 Highway 640, Mulberry, Florida.

This existing facility consists of five double absorption sulfuric acid plants; three phosphoric acid plants; a phosphoric acid clarification and storage area; three diammonium phosphate (DAP) plants; a monoammonium phosphate (MAP) plant; a granular monoammonium phosphate (GMAP) plant; an animal feed ingredients (AFI) plant; a molten sulfur storage & handling system; a limestone storage silo/rock grinding operation; and a phosphogypsum stack. Also included in this permit are miscellaneous unregulated emissions units and/or activities and insignificant activities.

PROJECT DESCRIPTION

This project is a Title V air operation permit revision to incorporate: Permit No. 1050059-072-AC, Replacement of Filter/Receiver for AFI Silica Storage Bin; Permit No. 1050059-061-AC, BART Exemption Project; Permit No. 1050059-070-AC, Annual Milestone Status Report; and, to make several other miscellaneous revisions.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Title V Air Operation Permit Revision received on April 1, 2013.
1st Request for Additional Information (RAI) sent on May 14, 2013.
Additional Information Response from Applicant received on August 9, 2013 (complete application).

Draft/Proposed Title V Air Operation Permit Revision posted onto web site on Month day, 2013.
Public Notice published on Month day, 2013.
Notification to U.S. EPA Region 4 of Publication of Public Notice on Month day, 2013.

PRIMARY REGULATORY REQUIREMENTS

Title I: This facility is a major source of hazardous air pollutants (HAP), based on the Title V air operation permit renewal application received on July 3, 2012.

NESHAP: This facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 Code of Federal Regulations (CFR) 63.

Title IV: This facility does not operate units subject to the Acid Rain provisions of the Clean Air Act.

Title V: This facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: This facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

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NSPS: This facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

CAIR: This facility does not operate units subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) applies to emissions units at this facility. The other emissions units at the facility are not subject to CAM for one or more of the following reasons: they do not trigger the pre-air pollution control device major source emission thresholds; they demonstrate continuous compliance with a continuous emission monitoring system (CEMS); or, they are not equipped with air pollution control devices.

PROJECT REVIEW

This project review summarizes the changes made in this Title V air operation permit revision.

The changes made in the draft permit documents are specifically shown as follows: deletions are noted in ~~strikethrough~~ and additions are noted in double underline. The changes will not be shown in the final permit documents.

Permit

- Incorporation of Permit No. 1050059-072-AC, Replacement of Filter/Receiver for AFI Silica Storage Bin. The applicable requirements from Permit No. 1050059-072-AC are included in the Emissions Unit Subsection **III.H.** of this revised Title V air operation permit. Specifically, the emissions unit description is updated and the PSD avoidance requirements are included in the revision [see the newly added Specific Conditions **III.H.13.** & **14.**].
- Incorporation of Permit No. 1050059-070-AC, Annual Milestone Status Report. The applicable requirements from Permit No. 1050059-070-AC are included in the Emissions Unit Subsection **III.A.** of this revised Title V air operation permit. Specifically, the emissions unit descriptions for SAP Nos. 1 & 2 are updated in the revision.
- Incorporation of Permit No. 1050059-061-AC, BART Exemption Project. The permittee installed air pollution control equipment and/or implemented air pollution control measures specified by Permit No. 1050059-061-AC in order to be exempt from a Best Available Retrofit Technology (BART) determination.

  The applicable requirements from Permit No. 1050059-061-AC are included in this revised Title V air operation permit. The applicant elected Scenario A of the BART Exemption Project. This permit affected the following emissions units:

E.U. ID No.	Emissions Unit Brief Description	Affected Subsection of the revised Title V Air Operation Permit
002	SAP No. 1	Subsection **III.A.**
003	SAP No. 2	Subsection **III.A.**
004	SAP No. 3	Subsection **III.A.**
009	DAP Plant No. 1	Subsection **III.E.**
011	MAP Plant	Subsection **III.G.**
027	AFI Plant	Subsection **III.I.**
036	Multifos A and B Kilns, Dryer and Blending Operations	Subsection **II.**

  The production & operational restrictions, emission standards & limitations, air pollution controls & measures, operational practices, compliance testing and reporting applicable to the Sulfuric Acid Plant Nos. 1, 2 & 3 are added in Emissions Unit Subsection **III.A.**

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- Miscellaneous Applicant Requested Revisions. Miscellaneous revisions were requested by the applicant in this application (see Attachment 1 of the permit application for a complete detailed listing - click on this Link and enter the Permit No. for quick reference). Here is a brief summary of some of the **important** requested administrative changes that were made in this permit:
  - Clarified averaging periods for production, process and heat input rates throughout the permit where an AC/PSD (Air Construction/Prevention of Significant Deterioration) permit does not exist.
  - Re-inserted applicable excess emission provisions throughout the permit.
  - Subsection III.N. Engines. Some of the descriptions for the engine emissions units (E.U. ID Nos. 087 & 088) are corrected at the facility. Some of the engine(s) have been out of service and according to the applicant would take significant work to bring them back into serviceable condition.

CONCLUSION

This project revises the current valid Title V air operation permit No. 1050059-075-AV. The renewed Title V air operation permit No. 1050059-075-AV was effective November 6, 2012. This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C.

New Wales Facility

http://www.sulphuric-acid.com/sulphuric-acid-on-the-web/acid%20plants/Mosaic-New-Wales-4.jpg

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