RECEIVED

MAR 15 2005

SUREAU OF AIR REGULATION



March 9, 2005 Certified Mail 7033 2260 0004 4120 7129

Florida Department of Environmental Protection Twin Towers Office Building 2600 Blairstone Road Tallahassee, FL 32399-2400

Attention: Mr. Bobby Bull, Engineer II

RE: MOSAIC FERTILIZER, LLC – BARTOW FACILITY APPLICATION TO MODIFY 1050046-008-AC

Dear Mr. Bull;

Enclosed please find four (4) signed copies of an application to modify Air Construction Permit No.1050046-008-AC. The requested modification is to remove Specific Condition No. 9, which has been replaced by an approved alternative monitoring plan under the HF MACT. This request is made as part of the Title V permit renewal process for the above referenced facility.

If you have any questions please call me at (863) 534-9615.

Sincerely,

Debra R. Waters

Environmental Superintendent

lua R. Water

XC: Jellerson, MacConnell, File 60-03-03B





December 9, 2004

Mosaic Phosphates Company Post Office Box 2000 Mulberry, Florida 33860 863.428.2601 863.428.2694 Fax

Carey G. MacConnell
Plant Manager – Bartow and Mulberry Plants
Mosaic Fertlizer LLC
3200 Highway 60 West
P.O. Box 9002
Bartow, Florida 33830

Re:

Delegation of Authority under Environmental Programs

Dear Carey:

In your capacity as Plant Manager — Bartow and Mulberry for Mosaic Fertilizer LLC (the "Corporation"), you are in charge of a principal business function for Mosaic Fertilizer LLC's Bartow and Mulberry concentrated phosphates operations in Florida. Consequently, for purposes of applicable environmental statutes and regulations, and in accordance with the Bylaws of the Corporation and the resolutions of the Board of Directors, I hereby designate you as a Responsible Corporate Official for concentrated phosphate operations at Bartow and Mulberry and delegate to you the authority in that capacity to execute all necessary environmental permit applications, other environmental documentation and reports. The authority granted in this letter shall be subject to all necessary corporate approvals having been first obtained, as required by the By-laws and resolutions of the Board of Directors and is further limited now or in the future by such resolutions, management guides, and actions as may be inconsistent with this delegation.

This delegation, effective since the 22nd day of October 2004, supersedes any previous delegations of similar authority that may have been given either to you or to any predecessor with responsibilities similar to yours.

Richard J. Krakowski

Vice President

Mosaic Phosphates MP Inc. and

Responsible Corporate Official for Concentrates Operations

Kalundi.



Department of Environmental Protection MAR 15 2005

RECEIVED

Division of Air Resource Management BUREAU OF AIR REGULATION APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit for a proposed project:

- subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

Air Operation Permit – Use this form to apply for:

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revised/renewal Title V air operation permit.

Air Construction Permit & Revised/Renewal Title V Air Operation Permit (Concurrent Processing Option) - Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Ide	Identification of Facility				
1.					
2.	Site Name: Bartow Facility				
3.	Facility Identification Number:	1050046			
4.	Facility Location:				
	Street Address or Other Locator:	3200 Hig	hway	60 West	
	City: Bartow	County:	Polk		Zip Code: 33830
5.	Relocatable Facility?		6.	_	e V Permitted Facility?
	☐ Yes			⊠ Yes	□ No
Ar	oplication Contact				
1.	Application Contact Name: Deb	ra Waters	, Envi	ronmental Sup	perintendent
2.	. Application Contact Mailing Address				
	Organization/Firm: Mosaic Ferti	lizer, L.L.(C .		
	Street Address: P.O. Box 9002				
	City: Bartow	S	tate:	FL	Zip Code: 33831
3.	Application Contact Telephone	Numbers	•		
	Telephone: (863) 534-9615	ext.		Fax: (863) 53	4-9684
4.	4. Application Contact Email Address: debbie.waters@mosaicco.com				
Ar	Application Processing Information (DEP Use)				
1.	Date of Receipt of Application:			3-15-0	5
2.	Project Number(s):			1050046-	//2 2 - AC_
3.	PSD Number (if applicable):				
4.	Siting Number (if applicable):				

Purpose of Application

This application for air permit is submitted to obtain: (Check one) **Air Construction Permit** ☐ Air construction permit. **Air Operation Permit** ☐ Initial Title V air operation permit. ☐ Title V air operation permit revision. Title V air operation permit renewal. ☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required. Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required. Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing) Air construction permit and Title V permit revision, incorporating the proposed project. Air construction permit and Title V permit renewal, incorporating the proposed project. Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box: ☐ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Application to modify Air Construction Permit No. 1050046-008-AC to remove Specific Permit Condition No. 9 which has subsequently been replaced by an approved alternative MACT Monitoring Plan. See Attachment.		

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
001	Ammonium/Diammonium Phosphate Plant	ACM1	N/A
	·		
	·		

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Application 1	Processing Fee		
Check one:	Attached - Amount: \$		cable

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

_			
1.	Owner/Authorized Representative Name:		
2.	Owner/Authorized Representative Mailing Address		
	Organization/Firm:		
	Street Address:		
	City: State: Zip Code:		
3.	Owner/Authorized Representative Telephone Numbers		
	Telephone: () - ext. Fax: () -		
4.	Owner/Authorized Representative Email Address:		
5.	Owner/Authorized Representative Statement:		
	Signature Date		

Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1	·			
1.	Application Responsible Official Name: Carey MacConnell, Facility Manager			
2.	Application Responsible Official Qualification (Check one or more of the following			
	options, as applicable):			
	For a corporation, the president, secretary, treasurer, or vice-president of the corporation in			
	charge of a principal business function, or any other person who performs similar policy or			
	decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more			
	manufacturing, production, or operating facilities applying for or subject to a permit under			
	Chapter 62-213, F.A.C.			
	For a partnership or sole proprietorship, a general partner or the proprietor, respectively.			
	For a municipality, county, state, federal, or other public agency, either a principal executive			
	officer or ranking elected official.			
	The designated representative at an Acid Rain source.			
3.	Application Responsible Official Mailing Address			
	Organization/Firm: Mosaic Fertilizer, L.L.C. Street Address: 3200 Highway 60 West			
	City: Bartow State: FL Zip Code: 33830			
	<u> </u>			
4.	Application Responsible Official Telephone Numbers			
	Telephone: (863) 534-9846 ext. Fax: (863) 534-8684			
	Application Responsible Official Email Address: carey.macconnell@mosaicco.com			
6.				
	Application Responsible Official Certification:			
	I, the undersigned, am a responsible official of the Title V source addressed in this air			
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DEP Form No. 62-210.900(1) – Form Effective: 06/16/03

<u>Pr</u>	ofessional Engineer Certification
1.	Professional Engineer Name: Scott A. McCann
	Registration Number: 54172
2.	Professional Engineer Mailing Address
	Organization/Firm: Golder Associates Inc.**
	Street Address: 6241 NW 23 rd Street, Suite 500
_	City: Gainesville State: FL Zip Code: 32653-1500
3.	Professional Engineer Telephone Numbers
4.	Telephone: (352) 336-5600 ext.543 Fax: (352) 336-6603 Professional Engineer Email Address: smccann@golder.com
5.	Professional Engineer Statement:
.	I, the undersigned, hereby certify, except as particularly noted herein*, that:
	(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions
	unit(s) and the air pollution control equipment described in this application for air permit, when
	properly operated and maintained, will comply with all applicable standards for control of air
	pollutant emissions found in the Florida Statutes and rules of the Department of Environmental
	Protection; and
	(2) To the best of my knowledge, any emission estimates reported or relied on in this application
	are true, accurate, and complete and are either based upon reasonable techniques available for
	calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an
	emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.
	(3) If the purpose of this application is to obtain a Title V air operation permit (check here \square , if so), I further certify that each emissions unit described in this application for air permit, when
	properly operated and maintained, will comply with the applicable requirements identified in this
	application to which the unit is subject, except those emissions units for which a compliance plan
	and schedule is submitted with this application.
	(4) If the purpose of this application is to obtain an air construction permit (check here \square , if so) or
	concurrently process and obtain an air construction permit and a Title V air operation permit
	revision or renewal for one or more proposed new or modified emissions units (check here \boxtimes , if
	so), I further certify that the engineering features of each such emissions unit described in this
	application have been designed or examined by me or individuals under my direct supervision and
	found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.
	(5) If the purpose of this application is to obtain an initial air operation permit or operation permit
	revision or renewal for one or more newly constructed or modified emissions units (check here \square ,
	if so), I further certify that, with the exception of any changes detailed as part of this application,
	each such emissions unit has been constructed or modified in substantial accordance with the
	information given in the corresponding application for air construction permit and with all
	provisions contained in such permit.
	3/4/05
	Signature AIRICA Date
	Si Syry
,	tseals the seal of

*Aftach any exception to certification statement.

** Board of Professional Engineers Certificate of Authorization #00001670

DEP Form No. 62-210.900(1) – Form

0437581/4/4.3/M.

Effective: 06/16/03



Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

David B. Struhs Secretary

PERMITTEE:

Cargill Fertilizer, Inc. 3200 Highway 60 West Bartow, Florida 33830

Authorized Representative:

Melody Russo Environmental Superintendent File No. 1050046-008-AC Permit No. PSD-FL-255

SIC No. 2874

Project: No. 3 Fertilizer Plant Expires: March 31, 2002

PROJECT AND LOCATION:

Permit for the construction/modification of the No. 3 Fertilizer Plant that produces monoammonium and diammonium phosphate (MAP/DAP). The project involves the replacement of air pollution control equipment and process modifications necessary to increase the production rate from 2,640 to 3,000 tons MAP/DAP per day (TPD). The project is located at the Cargill Fertilizer facility, 3200 Highway 60 West, Bartow, Polk County. UTM coordinates are Zone 17; 409.8 km E; 3086.7 km N.

STATEMENT OF BASIS:

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297. The above named permittee is authorized to modify the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

ATTACHED APPENDICES ARE MADE A PART OF THIS PERMIT:

Appendix BD BACT Determination

Appendix GC Construction Permit General Conditions

Howard L. Rhodes, Director Division of Air Resources

Management

AIR CONSTRUCTION PERMIT PSD-FL-255 (1050046-008-AC)

SECTION II - ADMINISTRATIVE REQUIREMENTS

FACILITY DESCRIPTION

Cargill Fertilizer, Inc. operates a phosphate fertilizer manufacturing facility near Bartow, Polk County, Florida, producing sulfuric acid, wet-process phosphoric acid, and ammoniated phosphate fertilizers. The company has applied to increase the production rate from 2,640 TPD to 3,000 TPD at its No. 3 Fertilizer (MAP/DAP) Plant. The No. 3 Fertilizer Plant can produce DAP or MAP. The modifications will improve product quality in addition to increasing the maximum production rate. As a result of this production rate increase, increases in the actual particulate matter (PM), PM with an aerodynamic diameter of 10 microns or less (PM₁₀), sulfur dioxide (SO₂), fluoride (F) and other pollutant emissions including ammonia (NH₃) will occur.

REGULATORY CLASSIFICATION

The No. 3 Fertilizer Plant is classified as a "Major or Title V Source" per Rule 62-210.200, F.A.C., because it has the potential to emit at least 100 tons per year of particulate matter when potential fugitive emissions are included with potential controlled emissions.

Phosphate rock processing plants are listed as a Major Facility Category in Table 62-212.400-1, F.A.C., Major Facility Categories." Therefore, stack and fugitive emissions of over 100 TPY of a regulated pollutant are sufficient to classify the installation as a "Major Facility" per the definitions in Rule 62-210.200, F.A.C., subject to the Significant Emission Rates given in Table 62-212.400-2, F.A.C. and the requirements of Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD) and Best Available Control Technology (BACT).

PERMIT SCHEDULE:

- 09-21-98: Original Application Received
- 10-30-98: Revised Application Received
- 02-11-99: Issued Intent to Issue Permit

RELEVANT DOCUMENTS:

The documents listed below are specifically related to this permitting action and form the basis of the permit. They are on file with the Department:

- Application received 09-21-98
- Department's incompleteness letter dated 10-15-98
- Applicant's submittal received 10-30-98
- National Park Service's letter received 10-28-98
 - Technical Evaluation and Preliminary Determination dated 02-11-99
- Best Available Control Technology determination (issued concurrently with permit)

AIR CONSTRUCTION PERMIT PSD-FL-255 (1050046-008-AC) SECTION II – ADMINISTRATIVE REQUIREMENTS

- Regulating Agencies: All documents related to applications for permits to operate, reports, tests, minor modifications and notifications shall be submitted to the Department's Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8218. All applications for permits to construct or modify an emissions unit(s) subject to the Prevention of Significant Deterioration or Nonattainment (NA) review requirements should be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), 2600 Blair Stone Road, MS 5505, Tallahassee, Florida 32399-2400 (phone number 850/488-0114).
- 2. <u>General Conditions</u>: The owner and operator is subject to and shall operate under the attached General Permit Conditions G.1 through G.15 listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]
- 3. <u>Terminology</u>: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.
- 4. Forms and Application Procedures: The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. [Rule 62-210.900, F.A.C.]
- 5. Expiration: This air construction permit shall expire on March 31, 2001 [Rule 62-210.300(1), F.A.C.]. The permittee may, for good cause, request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit. However, the permittee shall promptly notify the Department's Southwest District Office of any delays in completion of the project which would affect the startup day by more than 90 days. [Rule 62-4.090, F.A.C.]
- 6. Application for Title V Permit: An application for a Title V operating permit, pursuant to Chapter 62-213, F.A.C., must be submitted to the Department's Southwest District Office. [Chapter 62-213, F.A.C.]
- 7. Permit Approval: Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. [40 CFR 52.21(r)(2)].
- 8. <u>BACT Determination</u>: In conjunction with extension of the 18 month periods to commence or continue construction, or extension of the permit expiration date, the permittee may be required to demonstrate the adequacy of any previous determination of best available control technology for the source. [40 CFR 52.21(j)(4)]
- 9. Annual Reports: Pursuant to Rule 62-210.370(2), F.A.C., Annual Operation Reports, the permittee is required to submit annual reports on the actual operating rates and emissions from this facility. Annual operating reports using DEP Form 62-210.900(4) shall be sent to the DEP's Southwest District office by March 1st of each year.
- 10. Stack Testing Facilities: Stack sampling facilities shall be installed in accordance with Rule 62-297.310(6), F.A.C.
- 11. Quarterly Reports: Quarterly excess emission reports, in accordance with 40 CFR 60.7 (a)(7) (c) (1997 version), shall be submitted to the DEP's Northwest District office.

AIR CONSTRUCTION PERMIT PSD-FL-255 (1050046-008-AC) SECTION III - EMISSIONS UNIT(S) SPECIFIC CONDITIONS

The Specific Conditions listed in this section apply to the following emission units:

EMISSION UNIT No.	Emission Unit Description
001	No. 3 Fertilizer (MAP/DAP) Plant

- Unless otherwise indicated, the modification and operation of the subject No. 3 Fertilizer Plant shall be in accordance with the capacities and specifications stated in the application or in updated submittals. [Rule 62-210.300, F.A.C.]
- 2. The subject emissions unit shall comply with all applicable provisions of the 40 CFR 60 New Source Performance Standards for Diammonium Phosphate Plants, Subpart V. [Rule 62-204.800 F.A.C.]
- 3. The No. 3 MAP/DAP Plant shall not produce more than 1,470 tons per day of MAP or DAP product or process more than 61.25 tons of P₂O₅ input per hour for either product as determined using the procedure in Specific Condition No. 13. [Rule 62-210.200, F.A.C.]
- 4. The subject emission unit is allowed to operate continuously (8760 hours/year). [Rule 62-210.200, F.A.C.]
- 5. Total fluoride emissions shall not exceed 2.5 lb/hr and 10.95 TPY based on 0.041 lb F/ton of P₂O₅ input. [Rule 62-212.400, F.A.C.]
- 6. Particulate matter emissions shall not exceed 11.0 lb/hr and 48.2 TPY based on 0.18 lb/ton P₂O₅ input. [Rule 62-212.400, F.A.C.]
 - Visible emissions from the stack shall not exceed 15% opacity based on recent stack tests. [Rule 62-212.400, F.A.C.]
- 8. During periods of firing natural gas only, sulfur dioxide emissions from the stack shall be presumed as minimal and a sulfur dioxide compliance test shall be waived. No. 6 fuel oil with a maximum sulfur content of 1.5% sulfur by weight may be fired up to a maximum of 338,000 gallons per year. The firing rate of either fuel shall not exceed 40 million BTU per hour. The permittee shall maintain records of the fuel oil supplier's sulfur content analysis. [Rule 62-210.200(227), F.A.C.]
- 9. The total pressure drop across the combined primary and secondary scrubber control systems shall be maintained at all times during normal operation at a minimum pressure drop of 15 inches H₂O. Instances may occur at other times such as low operating rates during which the total pressure drop may be less than the normal rate minimum of 15 inches H₂O. The permittee shall install, calibrate, operate and maintain monitoring devices that continuously measure and record the total pressure drop across each scrubber. Accuracy of the monitoring devices shall be ± 5% over the operating range. [Rules 62-297.310, 62-296.800; 40 CFR 60.223(c), F.A.C.]
- 10. Before this construction permit expires, and annually, the subject emissions units shall be tested for compliance with the above emission limits. For the duration of all tests the emission units shall be operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then the emission unit may be tested at less than permitted capacity (i.e., 90% of the maximum operating rate allowed by the permit); in this case, subsequent emission unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emission unit is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit. [Rule 62-297.310, F.A.C.]
 - The Department's Southwest District office in Tampa shall be notified in writing at least 15 days prior to the compliance tests. Written reports of the test results shall be submitted to that office within 45 days of test completion. [Rule 62-297.310, F.A.C.]

AIR CONSTRUCTION PERMIT PSD-FL-255 (1050046-008-AC) SECTION III - EMISSIONS UNIT(S) SPECIFIC CONDITIONS

- 12. The compliance test procedures shall be in accordance with EPA Reference Methods 1, 2, 3, 4, 5, 7E, 9 and 13A or 13B, as appropriate, as published in 40 CFR 60, Appendix A. 60, Appendix A. [Rules 62-204.800 and 62-297.310(7)(c), F.A.C.]
- 13. All measurements, records, and other data required to be maintained by this facility shall be retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These data shall be made available to the Department upon request. [Rule 62-4.070(3), F.A.C.] The permittee shall install, calibrate, maintain, and operate a monitoring device which can be used to determine the mass flow of phosphorus-bearing feed material to the process. The monitoring device shall have an accuracy of ±5 percent over its operating range. The permittee shall maintain a daily record of equivalent P₂O₅ feed by first determining the total mass rate in metric tons/hour of phosphorus bearing feed using the flow monitoring device meeting the requirements of 40 CFR 60.223(a) and then by proceeding according to 40 CFR 60.224(b)(3). [Rule 62-296.800, F.A.C.; 40 CFR 60.223(b)]
- 14. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320, F.A.C.]
- 15. No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]
- 16. The subject emissions units shall be subject to the following:
 - Excess emissions resulting from startup, shutdown or malfunction of any source shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700, F.A.C.]
 - Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700, F.A.C.]
 - Considering operational variations in types of industrial equipment operations affected by this rule, the Department may adjust maximum and minimum factors to provide reasonable and practical regulatory controls consistent with the public interest. [Rule 62-210.700, F.A.C.]
 - In case of excess emissions resulting from malfunctions, each source shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.730, F.A.C.]
- 17. The permittee shall submit an Annual Operating Report using DEP Form 62-210.900(4) to the Department's Southwest District office by March 1 of the following year for the previous year's operation. [Rule 62-210.370, F.A.C.]