

Friday, Barbara

To: Scott_mccann@golder.com; Debbie.Waters@mosaicco.com; Waters, Jason
Cc: Bull, Robert
Subject: DRAFT Title V Permit Renewal No.: 1050046-018-AV/1050046-022-AC - Mosaic Fertilizer, LLC - Bartow Facility
Attachments: 1050046.018.AV.D[1].zip; 1050046.022.AC.D[1].zip

Attached for your records are two zip files for the subject DRAFT Title V Permit Renewal/Draft AC.

If I may be of further assistance, please feel free to contact me.

Barbara J. Friday
Planner II
Bureau of Air Regulation
(850)921-9524
Barbara.Friday@dep.state.fl.us

6/9/2005



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

P.E. Certification Statement

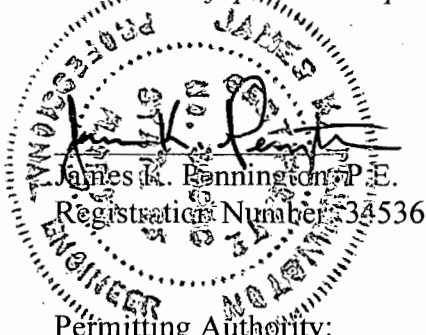
Permittee: Mosaic Phosphates Company **Draft Permit No.:** 1050046-022-AC
Bartow Facility

Project: Removal of Obsolete Permit Condition

This action acknowledges the removal of an obsolete permit condition for the MAP/DAP plant.

I HEREBY CERTIFY to the best of my knowledge and belief that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).

This Draft permit was prepared by Mr. Bobby Bull under my responsible charge.



5/18/05
Date

Permitting Authority:
Department of Environmental Protection
Bureau of Air Regulation
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Telephone: 850/488-0144
Fax: 850/922-6979



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

June 17, 2005

CERTIFIED MAIL - Return Receipt Requested

Carey G. MacConnell
Facility Manager
Mosaic Fertilizer, L.L.C.
3200 Highway 60 West
Bartow, FL 33830

Re: DRAFT Title V Air Operation Permit Renewal Project No.: 1050046-018-AV
Draft Air Construction Permit Project No.: 1050046-022-AC
Bartow Facility

Dear Ms. MacConnell:

One copy of the Technical Evaluation and Preliminary Determination, the combined Public Notice, the Draft air construction permit, and the DRAFT Title V air operation permit renewal for the Bartow Facility located at 3200 Highway 60 West in Polk County, is enclosed. The permitting authority's "INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL" and the "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL" are also included.

An electronic version of the DRAFT Title V Air Operation Permit Renewal has been posted on the Division of Air Resource Management's world wide web site for the United States Environmental Protection Agency (USEPA) Region 4 office's review. The web site address is:

["http://www.dep.state.fl.us/air/permitting/airpermits/AirSearch_ltd.asp"](http://www.dep.state.fl.us/air/permitting/airpermits/AirSearch_ltd.asp)

The "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL" must be published as soon as possible. Proof of publication, i.e., newspaper affidavit, must be provided to the permitting authority's office within 7 (seven) days of publication pursuant to Rule 62-110.106(5), F.A.C. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Please submit any written comments you wish to have considered concerning the permitting authority's proposed action to James K. Pennington, P.E., at the above letterhead address. If you have any other questions, please contact Bobby Bull at 850/921-9585.

Sincerely,

Trina L. Vielhauer
Chief
Bureau of Air Regulation

TLV/jkp/rlb
Enclosures

"More Protection, Less Process"

Printed on recycled paper.

In the Matter of an
Application for Permits by:

Mosaic Fertilizer, L.L.C.
3200 Highway 60 West
Bartow, Florida 33830

DRAFT Title V Air Operation Permit Renewal Project
No.: 1050046-018-AV
Draft Air Construction Permit Project No.:1050046-022-AC
Bartow Facility
Polk County

WRITTEN NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A
TITLE V AIR OPERATION PERMIT RENEWAL

The Department of Environmental Protection (permitting authority) gives notice of its intent to issue an Air Construction Permit (AC) and a Title V Air Operation Permit (Permit) renewal (copies of the DRAFT AC and DRAFT Permit attached) for the Title V source detailed in the application specified above, for the reasons stated below.

The applicant, Mosaic, Inc., applied on April 4, 2003, to the permitting authority for a Permit Renewal for the Bartow Facility, 3200 Highway 60 West, Bartow, Polk County. On March 15, 2005, the applicant submitted an air construction application.

The Air Construction Permit 1050046-022-AC is being issued to remove a permit condition from air construction permit 1050046-008-AC.

The Permit renewal is being issued to allow continued commercial operation of the facility, as authorized by the initial Permit, No. 1050046-003-AV, and incorporate the terms of Air Construction Permits 1050046-008-AC, 1050046-017-AC and 1050046-022-AC.

The permitting authority has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-212, and 62-213. This source is not exempt from construction and Title V permitting procedures. The permitting authority has determined that an AC and a Permit renewal are required to commence or continue operations at the described facility.

The permitting authority intends to issue the AC and the Permit renewal based on the belief that reasonable assurances have been provided to indicate that the AC activity and operation of the source will not adversely impact air quality, and the source will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-256, 62-257, 62-281, 62-296, and 62-297, F.A.C.

Pursuant to Sections 403.815 and 403.087, F.S., and Rules 62-110.106 and 62-210.350(3), F.A.C., you (the applicant) are required to publish at your own expense the enclosed "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL." The notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the permitting authority at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax: 850/921-9533), within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permits pursuant to Rule 62-110.106, F.A.C.

The permitting authority will issue the AC and the PROPOSED Permit and subsequent FINAL Permit, in accordance with the conditions of the attached Draft AC and the DRAFT Permit, unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The permitting authority will accept written comments concerning the proposed AC issuance action for a period of 14 (fourteen) days from the date of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT"

RENEWAL.” Written comments should be provided to the permitting authority office. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft AC, the permitting authority shall issue a Revised Draft AC and require, if applicable, another Public Notice.

The Permitting Authority will accept written comments concerning the DRAFT Permit for a period of thirty (30) days from the date of publication of the **“PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL.”** Written comments must be post-marked and all facsimile comments must be received by the close of business (5:00 pm), on or before the end of this 30-day period, by the Permitting Authority at the above address or facsimile. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location on the Department’s official web site for notices at <http://tlhora6.dep.state.fl.us/onw> and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the DRAFT Permit, the Permitting Authority shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit revision applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the permitting authority for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person’s right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the permitting authority’s action is based must contain the following information:

- (a) The name and address of each agency affected and each agency’s file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner’s representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner’s substantial interests will be affected by the agency determination;
- (c) A statement of how and when each petitioner received notice of the agency action or proposed action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency’s proposed action; and,

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the permitting authority's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation will not be available in this proceeding.

In addition to the above, a person subject to regulation has a right to apply to the Department of Environmental Protection for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542, F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information:

- (a) The name, address, and telephone number of the petitioner;
- (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any;
- (c) Each rule or portion of a rule from which a variance or waiver is requested;
- (d) The citation to the statute underlying (implemented by) the rule identified in (c) above;
- (e) The type of action requested;
- (f) The specific facts that would justify a variance or waiver for the petitioner;
- (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and,
- (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2), F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the United States Environmental Protection Agency and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 (sixty) days of the expiration of the Administrator's 45 (forty-five) day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to issuance of any permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30 (thirty) day public comment period provided in this notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator

Mosaic Fertilizer, L.L.C.

Bartow Facility

DRAFT Title V Air Operation Permit Project No.: 1050046-018-AV


Draft Air Construction Permit Project No.: 1050046-022-AC

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of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Executed in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

A handwritten signature in cursive script, reading "Trina L. Vielhauer", is written over a horizontal line.

Trina L. Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this INTENT TO ISSUE TITLE V AIR OPERATION PERMIT RENEWAL (including the PUBLIC NOTICE and the DRAFT Permit) and all copies were sent by certified mail before the close of business on 6/9/05 to the person(s) listed:

Carey G. MacConnell, Mosaic Fertilizer, LLC, Facility Manager, 3200 Highway 60 West, Bartow, FL, 33830.

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of this INTENT TO ISSUE TITLE V AIR OPERATION PERMIT RENEWAL (including the PUBLIC NOTICE and Statement of Basis) were sent by U.S. mail on the same date to the person(s) listed or as otherwise noted:

Scott McCann, P.E., Golder Associates, Inc.

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of this INTENT TO ISSUE TITLE V AIR OPERATION PERMIT RENEWAL (including the DRAFT Permit package) were sent by INTERNET E-mail on the same date to the person(s) listed:

Debbie Waters, Environmental Supervisor, Mosaic Fertilizer, LLC
Jason Waters, DEP- SWD
U.S. EPA, Region 4

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.

Barbara J. Sunday 6/9/05
(Clerk) (Date)

**PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V
AIR OPERATION PERMIT RENEWAL**

Permitting Authority
Department of Environmental Protection

DRAFT Title V Air Operation Permit No. 1050046-018-AV
DRAFT Air Construction Permit 1050046-022-AC
Mosaic Fertilizer, LLC
Bartow Facility
Polk County

Applicant: The applicant for this project is Mosaic Fertilizer, LLC, 3200 Highway 60 West, Bartow, Florida 33830. The applicant's responsible official is Carey G. MacConnell, Facility Manager.

Facility Location: The applicant operates a phosphate plant, which is located at 3200 Highway 60 West in Polk County, Florida.

Project: On April 4, 2003, the applicant submitted an application for a Title V Air Operation Permit (Permit) Renewal. On March 15, 2005, the applicant applied for an air construction permit (AC). Details of the project are provided in the application and the "Statement of Basis", for the Permit Renewal, and the Technical Evaluation and Preliminary Determination, for the AC.

The Air Construction Permit 1050046-022-AC is being issued to remove obsolete conditions from air construction permit No. 1050046-008-AC.

The Permit renewal is being issued to allow continued commercial operation of the facility, as authorized by the initial Permit, No. 1050046-003-AV, and incorporate the terms of Air Construction Permits 1050046-008-AC, 1050046-017-AC and 1050046-022-AC.

This facility consists of one phosphoric acid plant (two trains), one diammonium phosphate/monoammonium phosphate (MAP/DAP) plant, one DAP fertilizer plant, four sulfuric acid plants, two fertilizer shipping plants, two boilers, and two molten sulfur storage and handling systems. Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities. Based on the renewal application, facility processes, and initial notification requirements of 40 CFR 63, Subparts AA and BB, this facility is a major source of hazardous air pollutants (HAPs).

Permitting Authority: Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-213 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to operate the facility. The Department of Environmental Protection is the Permitting Authority responsible for making a permit determination regarding this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301. The Permitting Authority's mailing address is: Division of Air Resource Management, MS 5505, 2600 Blair Stone Road, Tallahassee, FL 32399-2400. The Permitting Authority's telephone number is 850/488-0114 and facsimile 850/921-9533.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the DRAFT Permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the DRAFT Permit and file electronic comments by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/ards/>. A copy of the complete project file is also available at the Southwest District at 3804 Coconut Palm Way, Tampa, FL, 33619-1352 (Telephone: 813/744-6100).

Notice of Intent to Issue A Permit: The Permitting Authority gives notice of its intent to issue an AC and a permit renewal to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the facility will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-256, 62-257, 62-281, 62-296, and 62-297, F.A.C. The Permitting Authority will issue an AC and the PROPOSED Permit and subsequent FINAL Permit in accordance with the conditions of the DRAFT AC and DRAFT Permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Comments: The permitting authority will accept written comments concerning the proposed AC issuance action for a period of 14 (fourteen) days from the date of publication of the "PUBLIC NOTICE OF

**PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V
AIR OPERATION PERMIT RENEWAL**

INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL.” Written comments should be provided to the permitting authority office. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft AC, the permitting authority shall issue a Revised Draft AC and require, if applicable, another Public Notice.

The Permitting Authority will accept written comments concerning the DRAFT Permit for a period of thirty (30) days from the date of publication of this “PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT RENEWAL.” Written comments must be post-marked and all e-mail or facsimile comments must be received by the close of business (5 pm) on or before the end of this 30-day period by the Permitting Authority at the above address, email or facsimile. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location on the Department’s official web site for notices at <http://tlhora6.dep.state.fl.us/onw> and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the DRAFT Permit, the Permitting Authority shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department’s Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen (14) days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person’s right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority’s action is based must contain the following information: (a) The name and address of each agency affected and each agency’s file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner’s representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner’s substantial rights will be affected by the agency determination; (c) A statement of how and when the petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency’s proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency’s proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency’s proposed action. A petition that does not dispute the material facts upon which the Permitting Authority’s action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority’s final action may be different from the position taken by it in this Public Notice of intent. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V
AIR OPERATION PERMIT RENEWAL**

Mediation: Mediation is not available for this proceeding.

Objections: In addition to the above right to petition, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within sixty (60) days of the expiration of the Administrator's 45 (forty-five) day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the Permit that were raised with reasonable specificity during the thirty (30) day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>	<p>A. Signature <div style="border: 1px solid black; padding: 2px;"> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee </div> </p> <p>B. Received by (Printed Name) <div style="border: 1px solid black; padding: 2px;">JAN Hurley</div> </p> <p>C. Date of Delivery <div style="border: 1px solid black; padding: 2px;">6-15-05</div> </p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> P.O. Box 9002 BARTOW FL. 33831-9002 </div> </p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. </p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>1. Article Addressed to: Carey G. MacConnell Facility Manager Mosaic Fertilizer, L.L.C. 3200 Highway 60 West Bartow, Florida 33830</p>	
<p>2. Article Number (Transfer from service label) 7000 2870 0000 7028 0573</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)											
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Carey G. MacConnell, Facility Manager </div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Postage</td> <td style="width: 50%;">\$</td> </tr> <tr> <td>Certified Fee</td> <td></td> </tr> <tr> <td>Return Receipt Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td>Restricted Delivery Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td>Total Postage & Fees</td> <td>\$</td> </tr> </table>	Postage	\$	Certified Fee		Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		Total Postage & Fees	\$	<div style="border: 1px solid black; height: 100px; width: 100%; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; opacity: 0.5;"> O F F I C I A L U S E </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Sent To Carey G. MacConnell, Facility Manager Street, Apt. No., or PO Box No. 3200 Highway 60 West City, State, ZIP+4 Bartow, Florida 33830</p> </div>
Postage	\$										
Certified Fee											
Return Receipt Fee (Endorsement Required)											
Restricted Delivery Fee (Endorsement Required)											
Total Postage & Fees	\$										
<p>PS Form 3800, May 2000 See Reverse for Instructions</p>											

PRELIMINARY DETERMINATION

Mosaic Fertilizer, LLC

Deletion of Conditions From
Air Construction Permit 1050046-022-AC
Bartow Facility
Polk County, Florida

DEP File Number
1050046-022-AC

Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

June 17, 2005

PRELIMINARY DETERMINATION

I. APPLICATION INFORMATION

A. Applicant

Mosaic Fertilizer, LLC
3200 Highway 60 West
Bartow, Polk County, Florida 33830
Authorized Representative: Ms. Carey G. MacConnell

B. Engineer

Scott A. McCann, P.E.
Golder Associates, Inc.
6241 NW 23rd Street, Suite 500
Gainesville, FL 32653-1500

C. Project and Location

The facility is requesting scrubber parameters stated in air construction permit No. 1050046-008-AC, emissions unit 001, specific condition No. 9, be removed from the permit. Condition No. 9 currently permits the combined primary and secondary scrubber control systems to maintain pressure drop at 15 inches H₂O. The facility currently has an alternate monitoring plan (AMP) which was developed by the facility and the Department, 5 years after permit No. 1050046-008-AC, to comply with the conditions of 40 CFR 63 Subpart BB, National Emission Standard for Hazardous Air Pollutants (NESHAP) for phosphate fertilizer production. The AMP provides a larger pressure drop parameters which the scrubbers can operate, based upon recent compliance testing. The parameters in the AMP will more accurately reflect the operations of emissions unit No. 001.

D. Facility Location

The applicant's facility is located at 3200 Highway 60 West, Bartow, Polk County, Florida. Latitude and longitude are 27° 54' 10" North and 81° 54' 59" West, respectively. UTM coordinates of the site are: Zone 17, 409.8 km East and 3086.6 km North.

Facility Identification Code (SIC): Major Group No. 28, Industry Group Nos. 2874.

E. Process and Controls

There will be no new process or controls introduced in this air construction permit.

F. Reviewing and Process Schedule

3/15/05: Date of Receipt of Application
3/17/05: Application complete

PRELIMINARY DETERMINATION

II. SUMMARY OF EMISSIONS

The emissions limitations for all existing emissions units will remain unchanged with this construction permit.

CONCLUSION

Based on the information submitted by Mosaic Fertilizer, LLC, the Department has made a preliminary determination that the proposed project will comply with all applicable state air pollution regulations of Chapters 62-204 through 62-297, F.A.C. The General and Specific Conditions are listed in the attached draft conditions of approval.

PROPOSED AGENCY ACTION

Pursuant to Sec. 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to delete the aforementioned air pollution sources in accordance with the draft permit and its conditions as stipulated.



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

PERMITTEE:

Mosaic Fertilizer, LLC
Bartow Facility
3200 Highway 60 West
Bartow, Florida 33830

Authorized Representative:

Carey G. MacConnell, General Manager
Bartow Facility

Permit No.	1050046-022-AC
Project:	Deletion of obsolete conditions
SIC:	2874
Expires:	1 year from final permit

PROJECT AND LOCATION:

This air construction permit is for the deletion of obsolete conditions from Air Construction Permit No. 1050046-008-AC. The revised conditions will be incorporated into the current Title V operating permit.

The Mosaic Fertilizer, LLC Bartow facility is located at 3200 Highway 60 West, Bartow, Polk County. UTM coordinates are Zone 17, 409.8 km E; 3086.6 km N.

STATEMENT OF BASIS:

This air 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.). The above named permittee is authorized to construct/operate 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 made a part of this permit:

Appendix GC Construction Permit General Conditions

Michael G. Cooke, Director
Division of Air Resource
Management

"More Protection, Less Process"

Printed on recycled paper.

SECTION I. GENERAL INFORMATION

FACILITY DESCRIPTION

This facility consists of one phosphoric acid plant (two trains), one diammonium phosphate/monoammonium phosphate (MAP/DAP) plant, one DAP fertilizer plant, four sulfuric acid plants, two fertilizer shipping plants, two boilers, and two molten sulfur storage and handling systems. Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

EMISSIONS UNITS

This permit revision addresses the following emissions units.

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-001	Ammonium/Diammonium Phosphate Plant

The Ammonium/Diammonium Phosphate Plant (No. 3) has a design capacity of 3000 tons per day of MAP/DAP. The process consists of a dryer, a cooler, a reactor/granulator and screen vents.

REGULATORY CLASSIFICATION

Because potential emissions of at least one regulated pollutant exceed 100 tons per year, the existing facility is a Title V Source and major source of air pollution in accordance with Chapter 62-213, F.A.C. Regulated pollutants include pollutants such as nitrogen oxides (NO_x), particulate matter (PM/PM_{10}), sulfur dioxide (SO_2), and sulfuric acid mist (SAM).

In addition, the Department has determined the facility to be a major source of hazardous air pollutants (HAPs) and affected sources are subject to 40 CFR 63 Subparts AA and BB.

Sulfuric Acid Plants 3, 4, 5, and 6 are subject to 40 CFR 60.80-85 as they apply to emissions of sulfuric acid mist only.

RELEVANT DOCUMENTS

- Construction Permit Application 1050046-022-AC received March 15, 2005, including request for concurrent processing of Title V Air Operation Permit Revision. The Title V Air Operation Permit Revision will be incorporated into the Title V Air Operation Permit Revision/Renewal project 1050046-018-AV.

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

1. Permitting Authority:
 - a. For this permit, the permitting authority is the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850)488-0114.
 - b. For future permitting actions, all documents related to applications for permits to construct or modify an emissions unit should be submitted to the Florida Department of Environmental Protection (FDEP), Southwest District, 3804 Coconut Palm Drive, Tampa, FL 33619-1352 and phone number (813/744-6100).
2. Compliance Authority: All documents related to operation, reports, tests, and notifications should be submitted to the Department of Environmental Protection Northeast District Office at
Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, FL 33619-1352
Telephone: 813/744-6100 Fax: 813/744-6084
3. General Conditions: 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.]
4. Terminology: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.
5. 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.]
6. Modifications: The permittee shall give written notification to the Department when there is any modification to this facility. This notice shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion, and revision of plans, if necessary. Such notice shall include, but not be limited to, information describing the precise nature of the change; modifications to any emission control system; production capacity of the facility before and after the change; and the anticipated completion date of the change. [Chapters 62-210 and 62-212, F.A.C.]
7. New or Additional Conditions: Pursuant to Rule 62-4.080, F.A.C., 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.]
8. Completion of Construction: The permit expiration date is 3 years from final permit.
9. Permit Expiration Date Extension: The permittee, for good cause, may request that this 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. [Rule 62-4.080, F.A.C.]

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

10. Application for Title V Permit Revision: Concurrent processing of Air Construction Permit Application 1050046-022-AC and Title V Permit Revision/Renewal 1050046-018-AV.
11. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify the Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
12. Operating Procedures: Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All plant operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment. [Rule 62-4.070(3), F.A.C.]
13. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without the applicable air control device operating properly. [Rule 62-210.650, F.A.C.]
14. Unconfined Particulate Matter Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]
15. Test Notification: The permittee shall notify the Compliance Authority in writing at least 30 days prior to any initial performance tests and at least 15 days prior to any other required tests. Notification shall include the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and conducting the test. [Rule 62-297.310(7)(a)9., F.A.C. and 40 CFR 60.7, 60.8]
16. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
17. Applicable Test Procedures
 - a. Required Sampling Time: Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be sixty (60) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur. [Rule 62-297.310(4)(a)1. and 2., F.A.C.]
 - b. Minimum Sample Volume: Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet. [Rule 62-297.310(4)(b), F.A.C.]

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

- c. **Calibration of Sampling Equipment.** Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C. [Rule 62-297.310(4)(d), F.A.C.]

18. Determination of Process Variables

- a. **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
[Rule 62-297.310(5)(a), F.A.C.]
- b. **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5)(b), F.A.C.]

19. **Special Compliance Tests:** When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
[Rule 62-297.310(7)(b), F.A.C.]

20. **Stack Testing Facilities:** Required stack sampling facilities shall be installed in accordance with Rule 62-297.310(6), F.A.C. [Rule 62-297.310]

21. **Operating Rate During Testing:** Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2)(b), F.A.C.]

22. **Records Retention:** All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department, upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2., F.A.C.]

23. **Emissions Performance Test Results Reports:** A report indicating the results of any required emissions performance test shall be submitted to the Compliance Authority no later than 45 days after completion of the last test run. The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the Department to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

shall provide the applicable information listed in Rule 62-297.310(8)(c), F.A.C. [Rule 62-297.310(8), F.A.C.]

24. Annual Operating Reports: The permittee is required to submit annual reports on the actual operating rates and emissions from this facility. Annual operating reports shall be sent to the DEP Southwest District by March 1st of each year. [Rule 62-210.370(2), F.A.C.]

DRAFT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

The following descriptions and specific conditions established in the Air Construction Permit, No. 1050046-008AC will be changes, and will be incorporated into the Title V permit renewal No. 1050046-018-AV; are changed as follows. Deletions are shown by ~~strikethroughs~~:

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

1. 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 3,000 tons per day of MAP or DAP product or process more than 61.25 tons of P_2O_5 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 P_2O_5 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 P_2O_5 input. [Rule 62-212.400, F.A.C.]
7. 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 H_2O . 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 H_2O .~~ 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 $\pm 5\%$ 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

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

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.]**

11. 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.]**
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 the 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 monitor 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 62-210.700, 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.]**

APPENDIX GC
CONSTRUCTION PERMIT GENERAL CONDITIONS [RULE 62-4.160, F.A.C.]

- G.1** The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- G.2** This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3** As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- G.4** This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- G.5** This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- G.6** The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- G.7** The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
- (a) Have access to and copy and records that must be kept under the conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,

APPENDIX GC
CONSTRUCTION PERMIT GENERAL CONDITIONS [RULE 62-4.160, F.A.C.]

(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

G.8 If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

(a) A description of and cause of non-compliance; and

(b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

G.9 In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

G.10 The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.

G.13 This permit also constitutes:

(a) Determination of Best Available Control Technology (not applicable to project);

(b) Determination of Prevention of Significant Deterioration (not applicable to project);
and

(c) Compliance with New Source Performance Standards (not applicable to project).

APPENDIX GC
CONSTRUCTION PERMIT GENERAL CONDITIONS [RULE 62-4.160, F.A.C.]

G.14 The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The person responsible for performing the sampling or measurements;
3. The dates analyses were performed;
4. The person responsible for performing the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

P.E. Certification Statement

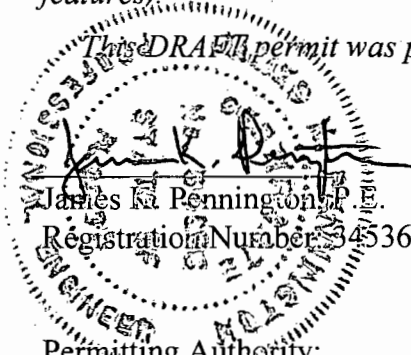
Permittee: Mosaic Phosphates Company **DRAFT Permit No.:** 1050046-018-AV
Bartow Facility

Project: Title V Air Operation Permit Renewal

This permit is to renew the Title V operating permit while incorporating the Mulberry facility along with several air construction permits. The Mulberry facility was acquired from Mulberry Phosphates, Inc. in August, 2002. The Bartow and Mulberry facilities are contiguous properties, and will be permitted under the same Title V operation permit. The Bartow facility consists of one phosphoric acid plant, one monoammonium phosphate / diammonium phosphate (MAP/DAP) plant, one DAP fertilizer plant, three sulfuric acid plants, two fertilizer shipping plants, one boiler; and one molten sulfur storage and handling system. The Mulberry facility consists of one sulfuric acid plant, one boiler, and one molten sulfur storage and handling system.

I HEREBY CERTIFY to the best of my knowledge and belief that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).

This DRAFT permit was prepared by Mr. Bobby Bull under my responsible charge.



5/18/05
Date

Permitting Authority:
Department of Environmental Protection
Bureau of Air Regulation
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Telephone: 850/488-0144
Fax: 850/922-6979

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STATEMENT OF BASIS

Mosaic Fertilizer, LLC
Bartow Facility
Facility ID No.: 1050046
Polk County

Title V Air Operation Permit Renewal
DRAFT Permit Project No.: 1050046-018-AV

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

The subject of this permit is the renewal of Title V Air Operation Permit 1050046-003-AV and the incorporation of construction permit, No. 1050046-008 -AC, issued on April 21, 1999, the incorporation of construction permit 1050046-017-AC, issued on February 12, 2003, the incorporation of construction permit 1050046-022-AC, the incorporation of the collocated Mosaic Mulberry permit, No. 1050048-001-AV, and the incorporation of the Department approved Alternative Monitoring Plan for scrubbers at the Bartow Facility.

The Mulberry facility was acquired from Mulberry Phosphates, Inc. in August, 2002. The Bartow and Mulberry facilities are contiguous properties, and will be permitted under the same Title V operation permit. The Bartow facility consists of one phosphoric acid plant (two trains), one diammonium phosphate/ monoammonium phosphate (MAP/DAP) plant, one DAP fertilizer plant, three sulfuric acid plants, two fertilizer shipping plants, one boiler, and one molten sulfur storage and handling system. The Mulberry facility consists of one sulfuric acid plant, one boiler, and one molten sulfur storage and handling system. The regulated Mulberry emissions units (EU) will be designated as EU Nos. 054 to EU 060.

The Ammonium/Diammonium Phosphate Plant (No. 3) has a design capacity of 3000 tons per day of MAP/DAP. The process consists of a dryer, a cooler, a reactor/granulator and screen vents. The No. 4 Fertilizer Shipping Plant includes material conveyors, transfer points, and one (1) truck and two (2) rail car shipping bins and loadout spouts. All material transfer points are located inside the material handling building and are covered and evacuated to minimize fugitive emissions. The truck and rail car loading operations are beneath the building and enclosed on two sides. Loading is done via a chute feeder which is also controlled by dust suppressant. The No. 3 Fertilizer Shipping Plant has a maximum permitted MAP/DAP product railcar loading rate of 385.0 tons per hour. The product loading system includes material conveyors, transfer points, two parallel screens, surge bin, weigh belt and loading spouts. Loading is done via a chute feeder which is also controlled by full-time utilization of dust suppressant to control the generation of dust. The Phosphoric Acid Plant (No. 4 -- V-Train, and No. 5 -- U-Train) has a design feed rate of 170 tons per hour equivalent P_2O_5 feed input. Fluoride emissions from the following sources are controlled by three separate scrubbers; one venturi scrubber and two cross flow packed scrubbers with an air flow rate range of 22,000 to 30,000 ACFM. Sulfur dioxide from each sulfuric acid plant (Nos. 4, 5, and 6) is controlled by a dual absorption tower, and acid mist is controlled by High Velocity and High Efficiency mist eliminators. The Diammonium Phosphate (DAP) Fertilizer Plant (No. 4) consists of a dryer, cooler, reactor and granulator. Emissions from the dryer pass through the venturi, cyclonic and cross-flow scrubbers. Emissions from the cooler

pass through a separate cross-flow scrubber. Emissions from the reactor, granulator, screen vents and material handling systems pass through a separate scrubbing system consisting of venturi, cyclonic and cross-flow scrubbers. The molten sulfur storage and handling system consists of the following: a rail and truck unloading system, one 3,000 ton molten sulfur storage tank, one 6,000 ton molten sulfur storage tank, one 200 ton molten sulfur truck/railcar unloading pit (Pit A), one 300 ton railcar unloading pit (Pit B), and all of the associated transfer pumps and piping. The Package Watertube Boiler is used during cold start-up of the sulfuric acid plant(s) and for make-up steam during times the sulfuric acid plant(s) are operating below capacity and it is routinely fired for maintenance purposes. EU No. 054 is a double absorption sulfuric acid plant at a phosphate fertilizer facility. This plant is designed to produce a maximum of 1,700 tons per day of sulfuric acid (100% H_2SO_4 basis). Sulfur is burned in air first dried by passing through concentrated sulfuric acid in a drying tower. The resulting sulfur dioxide passes through converter units w/catalyst, through an intermediate absorption tower, through a final converter w/catalyst, and then through a final absorption tower (double absorption). Acid mist emissions from the final absorption tower are controlled by a Brink HV Demister. Waste heat from the process is also used to cogenerate electric power. For the operation of a Nebraska Model NS-E-65 Process Steam Boiler, EU No. 055, this boiler shall be fired with natural gas as the primary fuel with new No. 2 fuel oil as backup during natural gas curtailment. EU Nos. 56-60 are the Mulberry molten sulfur loading and storage. Molten sulfur is delivered by tank truck and unloaded by gravity into the truck pit. Pumps in the pit forward the liquid to storage tanks. Emissions of particulates are controlled by pit covers. The four storage tank vents are uncontrolled. CAM does not apply to any of the emissions units at both the Bartow and Mulberry facilities.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received April 4, 2003, this facility is a major source of hazardous air pollutants (HAPs).

Mosaic Fertilizer, LLC
Bartow Facility
Facility ID No.: 1050046
Polk County

Title V Air Operation Permit Renewal
DRAFT Permit No.: 1050046-018-AV
Renewal to the Title V Air Operation Permit No.: 1050046-003-AV

Permitting Authority:
State of Florida
Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Telephone: 850/488-0144
Fax: 850/922-6979

Compliance Authority:
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
Telephone: 813/744-6100
Fax: 813/744-6084

Title V Air Operation Permit Renewal
DRAFT Permit No.: 1050046-018-AV
Renewal to the Title V Air Operation Permit No.: 1050046-003-AV
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Title V Air Operation Permit Renewal
DRAFT Permit No.: 1050046-018-AV
Renewal to the Title V Air Operation Permit No.: 1050046-003-AV
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IV. Appendices and Attachments (listed in sequence as attached)

Appendix U-1 List of Unregulated Emission Units and/or Activities.

Appendix TV-4, Title V Conditions

Appendix SS-1, Stack Sampling Facilities

Appendix A-1, Abbreviations, Definitions, Citations, and ID Numbers

Appendix H-1, Permit History/ID Number Transfers

Figure 1 - Summary Report - Excess Emissions and Monitoring Sys. Performance

Table 297.310-1 Calibration Schedule

Table 1-1, Summary of Air Pollutant Standards and Terms

Table 2-1, Summary of Compliance Requirements

Statement of Basis

NOTE:

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

Permittee:

Mosaic Fertilizer, LLC.
3200 Highway 60 West
Bartow, FL 33830

DRAFT Permit No.: 1050046-018-AV

Facility ID No.: 1050046

SIC Nos.: 28, 2874, 2819

Project: Title V Air Operation Permit Revision

The purpose of this permit is to renew the Title V Air Operation Permit 1050046-003-AV, incorporate the collocated Mosaic Mulberry permit, No. 1050048-001-AV, incorporate the terms of Air Construction Permits 1050046-008-AC, 1050046-017-AC, and 1050046-022-AC, and incorporate the Department approved Alternative Monitoring Plan for scrubbers at the Bartow Facility. This facility is located at 3200 Highway 60 West, Bartow, Polk County; UTM Coordinates: Zone 17, 409.8 km East and 3086.6 km North; and, Latitude: 27° 54' 10" North and Longitude: 81° 54' 59" West.

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix U-1, List of Unregulated Emissions Units and/or Activities

APPENDIX TV-4, TITLE V CONDITIONS version dated 02/12/02

APPENDIX SS-1, STACK SAMPLING FACILITIES version dated 10/07/96

TABLE 297.310-1, CALIBRATION SCHEDULE version dated 10/07/96

FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS

EMISSION AND MONITORING SYSTEM PERFORMANCE REPORT version dated 07/96

40 CFR 63 Subparts A, AA, and BB

Alternative Monitoring Plan for Scrubbers: No. 3-C-AP

Initial Effective Date: ARMS Day 55

Renewal Application Due Date: 180 days from expiration date

Expiration Date: 5 years from Effective Date

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Michael G. Cooke, Director
Division of Air Resource Management

MC/jkp/rlb

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Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of one phosphoric acid plant (two trains), one diammonium phosphate/monoammonium phosphate (MAP/DAP) plant, one DAP fertilizer plant, four sulfuric acid plants, two fertilizer shipping plants, two boilers, and two molten sulfur storage and handling systems.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the renewal application, facility processes, and initial notification requirements of 40 CFR 63, Subparts AA and BB, this facility is a major source of hazardous air pollutants (HAPs). CAM does not apply to emissions units at both the Bartow and Mulberry facilities.

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-001	Ammonium/Diammonium Phosphate Plant
-002	No. 4 Fertilizer Shipping Plant
-004	No. 3 Fertilizer Shipping Plant
-010	Phosphoric Acid Plant (No. 4 -- V-Train, and No. 5 -- U-Train)
-012	No. 4 Sulfuric Acid Plant
-021	Diammonium Phosphate Fertilizer Plant
-032	No. 6 Sulfuric Acid Plant
-033	No. 5 Sulfuric Acid Plant
-045	Molten Sulfur System -- Stack 45 from West 200 ton molten sulfur pit
-046	Molten Sulfur System -- Vent 44 and 44A from 6,000 ton tank
-047	Molten Sulfur System -- Vent 43, 43A, 43B, 43C and 43D from 3,000 ton tank
-050	Molten Sulfur System -- Stack 47 from East 300 ton molten sulfur pit
-051	Package Watertube Boiler
-052	Bartow Phosphogypsum Stack
-054	No. 3 Sulfuric Acid Plant
-055	Auxiliary Process Steam Boiler
-056	Molten Sulfur Storage/Handling--Truck Delivery Pit
-057	Molten Sulfur Storage/Handling--Storage Tank, North Vent
-058	Molten Sulfur Storage/Handling--Storage Tank, Southeast Vent
-059	Molten Sulfur Storage/Handling--Storage Tank, Southwest Vent
-060	Molten Sulfur Storage/Handling--Storage Tank, Middle Vent

Unregulated Emissions Units and/or Activities

-053	Facility Wide Fugitive Emissions
-061	Waste Heat Boiler/Flash Tank Discharge
-062	Tank Truck Loading/Unloading of Sulfuric Acid
-063	Industrial Cooling Towers
-064	Process and Product Storage Tanks
-065	Auxiliary Power Generators and Diesel Fuel Tanks
-066	Molten Sulfur Fire and Spill Cleanup
-067	VOC From Solvent Cleaning of Small Parts
-068	Welding, Grinding, and Cutting Metal from Maintenance Vehicles
-069	Fugitive Dust/Exhaust Emissions From Maintenance Vehicles

- 070 Miscellaneous Painting and Relining Rubber-Lined Vessels
- 071 Vehicle Fleet Fuel Storage Tanks
- 072 Sulfuric Acid Plant Catalyst Removal and Classifying

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms

Table 2-1, Summary of Compliance Requirements

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers

Appendix H-1, Permit History / ID Number Transfers

Statement of Basis

These documents are on file with permitting authority:

Initial Title V Permit Application received June 17, 1996

Additional Information Request dated September 25, 1997

Additional Information Response received December 30, 1997

Additional Information Response received March 31, 1998

Additional Information Response received June 12, 1998

Title V Permit Revision Application received December 24, 2001

60 day Waiver Dated February 25, 2002

Title V Renewal Application Received April 4, 2003

Request for Additional Information dated May 29, 2003

Additional Information Response received September 2, 2003

Additional Information Received October 28, 2003

Request for Additional Information dated November 24, 2003

Additional Information Received December 2, 2003

Alternative Monitoring Plan issued January 22, 2004

Request for Additional Information dated April 13, 2004

Request for Additional Information dated May 11, 2004

Additional Information received June 16, 2004 (Mulberry Application)

Additional Information Response received June 25, 2004

Alternative Monitoring testing results received June 28, 2004

Request for Additional Information sent July 23, 2004

Additional Information Received September 3, 2004

Additional Information Response received November 8, 2004

Comments on initial draft permit received February 10, 2005

Air Construction permit application received March 15, 2005

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-4, TITLE V CONDITIONS, is a part of this permit.

{Permitting note: APPENDIX TV-4, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.}

2. **Not federally enforceable.** General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity).
[Rule 62-296.320(4)(b)1., F.A.C.]

4. Prevention of Accidental Releases (Section 112(r) of CAA). If required by 40 CFR 68, the permittee shall submit:

a. a risk management plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 1515
Lanham-Seabrook, Maryland 20703-1515
Telephone: 301/429-5018

and,

b. to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.
[40 CFR 68]

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

6. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include: confine sand blasting when practical, all outside fertilizer conveyor belts are covered, use street cleaning equipment to remove dirt from paved areas, keep covers on process equipment, prompt cleanup of dry rock spills, posted speed limits on plant roads, fertilizer products are stored inside buildings, and product material transfer points are enclosed.
[Rule 62-296.320(4)(c)2., F.A.C.; Proposed by applicant in the initial Title V permit application received June 17, 1996; Air Construction Permit AC53-253092]

7. Compliance with the monitoring requirements of this permit for monitoring equipment not previously installed prior to issuance of this permit shall commence on the date of the next required compliance test after issuance of this permit.

[Rule 62-213.440(1)(b), F.A.C.]

8. The requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A.

{Permitting Note: The permittee may perform simultaneous testing for fluorides and particulates per DEP interoffice memorandum dated December 17, 1983. In addition the permittee may use an alternative analytical procedure (Method 13B without fusion and distillation) in lieu of EPA Method 13B for the analysis of fluoride samples per DEP Order No. ASP 95-H01.}

[Rule 62-297.401, F.A.C.]

9. Testing of emissions shall be conducted with the source 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 sources may be tested at less than capacity; in this case subsequent source operation is limited to 110 percent of the test load until a new test is conducted. Once the 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. In no case shall the process or production rate exceed the maximum permitted process or production rate. The actual process or production rate during the test shall be included in each test report. Failure to include the actual process or production rate in the results may invalidate the test. In addition, the test results shall include any operating parameters limited or specified to be recorded in this permit, e.g., scrubber flow rate. [Rule 62-297.310, F.A.C.]

10. If the Department of Environmental Protection has reason to believe that any applicable emission standard is being violated, then the Department of Environmental Protection may require the permittee to conduct compliance tests which identify the nature and quantity of pollutant emissions and to provide a report on the results of the tests.

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

11. The permittee shall notify the Air Compliance Section of the Southwest District Office of the Department at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted.

[Rules 62-297.310(7)(a)9 and 62-209.500(5), F.A.C.]

{Permitting Note: The permittee may at the discretion of the Department, test an emissions unit with less than 15 days advance notice.}

12. The permittee shall submit to the Air Compliance Section of Southwest District Office of the Department each calendar year, on or before March 1, a completed DEP Form 62-213.900 (4), an "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), F.S.:

- a. Annual amount of materials and/or fuels utilized;
- b. Annual emissions (note calculation basis);
- c. Hours of operation;
- d. Any changes in the information contained in the permit.

The annual "Statement of Compliance: (ref. Appendix TV-4, item 51) shall be submitted with the AOR.

[Rule 62-210.370(3), F.A.C., ref. Appendix TV-4, item 24]

13. Hours of Operation - Unless otherwise noted, all emission units are allowed to operate continuously, i.e., 8760 hours per year.
[Rule 62-4.070(3), F.A.C.]

14. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

15. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Southwest District office:

Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Telephone: 813/744-6100
Fax: 813/744-6458

16. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air & EPCA Enforcement Branch
61 Forsyth Street
Atlanta, Georgia 30303
Telephone: 404/562-9155
Fax: 404/562-9019

17. This facility is subject to the provisions of 40 CFR 60 Subpart A - General Provisions. A copy of 40 CFR 60 Subpart A - General Provisions is available from the Department upon request.

18. This permit includes a "Subsection" for each emissions unit that includes a description of the emissions unit. That description is descriptive only and is not enforceable.

NOTES to PERMITTEE:

Based on a modeling study approved by the Department, it was determined that emissions from this facility will not have a significant impact on the Hillsborough County Air Quality Maintenance Area and it is therefore exempt from the PM RACT requirements in accordance with Rule 62-296.700(2)(b), F.A.C. The facility, consisting of the following emission units will not have a significant impact on the Air Quality Maintenance Area.

Subsection	E.U. I.D. No.	Description	Particulate Matter (PM) Limit	
			lbs/hr	Tons per year
A	001	Ammonium/Diammonium Phosphate Plant	30.0	131.4
B	002	No. 4 Fertilizer Shipping Plant	10.54 ¹	31.6 ¹
C	004	No. 3 Fertilizer Shipping Plant	12.0	12.0
F	021	Diammonium Phosphate Fertilizer Plant	22.8 ¹	96.9 ¹
G	045-050	Molten Sulfur Unloading, Storage and Handling System	1.28 ²	5.35 ²
H	051	Package Watertube Boiler	4.38 ³	3.84 ³
Total			81.0	

¹Emission limit based on BACT determination.

²Emission estimate for emission inventory and PSD purposes.

³Emission estimate based on BACT determination.

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Permit Renewal - Reference Appendix TV-4, item 5

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions unit(s).

E.U. ID

No.

Brief Description

-001 Ammonium/Diammonium Phosphate Plant

The Ammonium/Diammonium Phosphate Plant (No. 3) has a design capacity of 3000 tons per day of MAP/DAP. The process consists of a dryer, a cooler, a reactor/granulator and screen vents.

The dryer is fired with natural gas, or fuel oil with a maximum sulfur content of 2.4 percent, at a design heat input rate of 40 MMBtu per hour. Emissions from the dryer are controlled by a venturi scrubber and a cyclone scrubber. Exhaust from the dryer scrubber goes through a packed bed tailgas scrubber. Emissions from the granulator are also controlled by a venturi scrubber and cyclonic scrubber. The reactor and vents have a separate venturi and cyclonic scrubber as does the cooler. Exhaust from the granulator, reactor, vents and cooler go to a separate packed tailgas scrubber. The tailgas scrubbers exhaust goes to a common stack.

{Permitting note(s): These emissions units are regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.403, F.A.C., Phosphate Processing; 40 CFR 63, Subpart A - General Provisions; 40 CFR 63, Subpart BB - National Emission Standards for Hazardous Air Pollutants (NESHAP) From Phosphate Fertilizers Production Plants. **The Part 40 CFR 63 Subparts A and BB take precedence, however these units are subject to all applicable State Implementation Plan (SIP) rules if these units are out of compliance with the NESHAP.**}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Capacity.

- The maximum permitted production rate for the ammonium/diammonium phosphate plant shall not exceed 3000 tons per day of DAP or MAP product.
- The maximum production rate shall not exceed 61.25 tons per hour of 100 percent phosphoric acid (P_2O_5) input.
- The maximum heat input rate to the dryer is limited to 40 MMBtu per hour.

[Rule 62-4.160(2), F.A.C. and Rule 62-210.200, Definitions - (PTE), F.A.C., Air Construction Permit 1050046-008-AC]

{Permitting Note: See Conditions A.23 and A.24 for the federally enforceable NESHAP requirements for monitoring and recordkeeping of the equivalent P_2O_5 feed rate.}

A.2. Methods of Operation - (i.e., Fuels).

The dryer shall be fired with natural gas or new No. 6 fuel oil or a better grade oil⁽¹⁾. The fuel oil shall contain no more than 1.5% sulfur, by weight. The "New" fuel oil is defined as being refined from crude oil and has not been used, and may or may not contain additives. No. 6 fuel oil with a maximum content of 1.5% sulfur by weight may be fired up to a maximum of 338,000 gallons per year. Firing rate of either fuel shall not exceed 40 MMBtu per hour. The permittee shall maintain records of the fuel oil supplier's sulfur content analysis.

[Rules 62-4.160(2), and 62-213.440(1), F.A.C., and Air Construction Permit 1050046-008-AC]

⁽¹⁾Better Grade Fuel Oil

A better grade fuel oil is defined as a fuel with a higher ranking in the following list:

Better Grade (Top of List)

new, No. 2 fuel oil
new, No. 3 fuel oil
new, No. 4 fuel oil
new, No. 5 fuel oil
new, No. 6 fuel oil

A.3. Hours of Operation: This emissions unit is allowed to operate 8760 hours per year.
[Air Construction Permit 1050046-008-AC]

Emission Limitations and Standards

A.4. Fluoride emissions from the Ammonium/Diammonium Phosphate Plant (No. 3) shall not exceed 0.041 pound of fluoride per ton of equivalent P_2O_5 feed or 2.5 pounds of fluoride per hour or 10.95 TPY, whichever is less.

[Rule 62-296.403(1), F.A.C. and Air Construction Permit 1050046-008-AC]

{Permitting Note: The fluoride emission limit in Condition A.4. of 0.041 lb/ton equivalent P_2O_5 feed is less than the applicable NESHAP, 40 CFR 63.622(a) limit of 0.06 lb/ton of equivalent P_2O_5 feed. The permittee shall comply with the applicable requirements of the NESHAP, 40 CFR 63, Subparts A and BB.}

A.5. Particulate emissions from the Ammonium/Diammonium Phosphate Plant (No. 3) shall not exceed 11.0 pounds per hour and 48.2 TPY based on 0.18 lb/ton P_2O_5 .

[Air Construction Permit 1050046-008-AC]

A.6. Visible emissions shall be less than 15% opacity. The visible emissions test shall be conducted by a certified observer and be a minimum of thirty minutes in duration, unless otherwise specified within. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur.

[Rule 62-296.320(4)(a)(2) and (b), F.A.C. and Air Construction Permit 1050046-008-AC]

A.7. Fugitive particulate and fluoride emissions from the process, conveying and storage equipment shall be controlled by sealing and/or venting particulate matter and fumes from the equipment to the pollution devices.

[Air Operating Permit AO53-169781]

A.8. 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 (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(1), F.A.C.]

A.9. 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(4), F.A.C.]

A.10. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection

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 62-210.700(6), F.A.C.]

Test Methods and Procedures

A.11. Test the Ammonium/Diammonium Phosphate Plant (No. 3) for particulates, fluorides, and visible emissions annually.

[Rules 62-297.310(7)(a)4, and 62-4.070(4), F.A.C.; 40 CFR 63.626(a)(1) and 63.630(a)]

A.12. Compliance with the emission limitations of Conditions A.3., A.4 and A.5. shall be determined using EPA Methods 1, 2, 3, 4, 5, 9, and 13A or 13B contained in 40 CFR 60, Appendix A and adopted by reference in Chapter 62-297, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60, Appendix A. [Chapter 62-297, F.A.C.; 40 CFR 63.626(b) and 63.630(a)]

A.13. Compliance testing of the product dryer shall be conducted while firing oil in the product dryer, if oil of any type has been used in the product dryer for a sum total of more than 400 hours from the previous test. If a test is conducted while firing natural gas, and in the 12 month period following the test, fuel oil of any type is burned for a sum total of more than 400 hours, then an additional emissions test per Conditions A.4., A.5., and A.6. shall be conducted, while burning oil in that source, within 30 days of having exceeded the 400 hour oil burning limit. A compliance test is required for operating the product dryer on a lower grade oil than was previously permitted to do so.

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

⁽¹⁾ see page A2

A.14. If testing is conducted while firing fuel oil in the dryer, compliance with the sulfur content requirement of Condition A.2 shall be demonstrated during the test by submitting either of the following with the test report:

- a. A Certificate of Fuel Oil Analysis from your fuel oil vendor for the fuel used during the compliance test; or
- b. A Certificate of Fuel Oil Analysis for a fuel oil sample taken during the compliance test.

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

Monitoring of Operations

Conditions A.15, A.16, and A.17 are applicable to the monitoring, reporting, recordkeeping, and excess emissions reporting requirements of 40 CFR 63, Subpart BB (See NESHAP Conditions A.20 through A.29) and 40 CFR 63, Subpart A.

A.15. The permittee shall calibrate, maintain, and operate a flow 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 $\pm 5\%$ over its operating range.

[Air Operation Permit AO53-169781, and Air Construction Permit 1050046-008-AC]

A.16. In order to provide reasonable assurance that the fluoride emission limitation is being met, the permittee shall create and keep a record log of the scrubber operating parameters. The record log shall contain, at a minimum:

- a. the water flow rate (gallons per minute),
- b. the scrubber pressure drop (inches of water),
- c. the date and time of the measurements, and
- d. the name of the person responsible for performing the measurements.

A record log entry for each scrubber shall be made at least once for every 8 hour shift when the Ammonium/Diammonium Phosphate Plant operates.

NOTE: The permittee may substitute continuous monitoring and strip chart recordings for the manual recordkeeping required by this Condition.

[Rules 62-4.070(3), 62-4.160(14)(b), and 62-4.160(14)(c), F.A.C.]

A.17. The pollution control equipment shall be operated in accordance with the Department approved Alternate Monitoring Plan for the scrubbers associated with this unit. Modification of the Alternate Monitoring Plan requires Department approval as referenced in Condition A.27.

[Rule 62-4.070(3)]

Continuous Monitoring Requirements

Condition A.18 is applicable to NESHAP, 40 CFR 63, Subparts A and BB.

A.18. The permittee shall calibrate, maintain and operate a monitoring device which continuously measures and permanently records total pressure drop across each scrubber system. The monitoring device shall have an accuracy of $\pm 5\%$ over its operating range.

[Air Operation Permit AO53-169781, and Air Construction Permit 1050046-008-AC]

Recordkeeping and Reporting Requirements

Condition A.19 is applicable to NESHAP, 40 CFR 63, Subparts A and BB.

A.19. The permittee shall maintain a daily record of equivalent P_2O_5 feed by first determining the total mass in tons per hour of phosphorus-bearing feed using a monitoring device for determining mass flow rate which meets the requirements of A.12 and then by processing according to 40 CFR 60.224(b)(3).

[40 CFR 60.223(b)]

A.20. In order to document continuing compliance with the maximum sulfur content requirement of Condition A.2, the permittee shall maintain a record of the sulfur content of the fuel oil received for use in the product dryer. These records may be based on vendor supplied information or analysis of samples taken by the permittee in accordance with Rule 62-297.440, F.A.C.

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

A.21. A daily record log(s) shall be established and maintained to document, at a minimum, the following:

- a. the quantity of natural gas and the quantity of oil and type of oil (No.2, No.3, No. 4, No. 5, or No. 6 fuel oil) utilized in the product dryer.
- b. the sulfur content (percent, by weight) of each type of oil (No. 2, No. 3, No. 4, No. 5, or No. 6 fuel oil) utilized in the product dryer. The sulfur content may be based upon vendor supplied as-delivered oil sulfur content information, or an oil analysis.
- c. the total hours of product dryer operation using oil of any type.
- d. the total hours of product rock dryer operation using oil of any type for each rolling 12 consecutive month period (hours per 12 months).

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

{Permitting Note: See NESHAP Conditions (Conditions A.23. through A.33.) as well as 40 CFR 63, Subpart A for additional recordkeeping requirements.}

A.22. All test reports submitted to the Air Compliance Section of the Southwest District Office of the Department shall include, at a minimum, the following information for the test period:

- a. Type of fuel being fired.
- b. Heat input rate (MMBtu per hour) and firing rate

- (MCF per hour or gallons per hour).
- c. Material process input rate (Tons per hour) and production rate (Tons per hour).
 - d. Scrubber liquid flow rate (gpm).
 - e. If the test was conducted while firing natural gas, then include a statement of the total hours of dryer operation while firing fuel oil, of any type, during the 12 consecutive month period prior to the test.

Failure to submit the above information, or operating at conditions which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance.

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

{Permitting Note: See NESHAP Conditions (Conditions A.23 through A.33) as well as 40 CFR 63, Subpart A, for additional monitoring and recordkeeping requirements during performance tests.}

NESHAP Conditions

A.23. The permittee shall achieve compliance with the requirements of 40 CFR 63, Subpart BB no later than June 10, 2002.

[40 CFR 63.630(a)]

A.24. This emissions unit is exempted from the requirements in NSPS, 40 CFR 60, Subpart V effective upon the date that the permittee demonstrates compliance with 40 CFR 63, Subpart BB.

[40 CFR 63.631]

A.25. This emissions unit is subject to specific requirements in the 40 CFR 63, Subpart A - General Provisions.

[40 CFR 63, Appendix A of Subpart BB]

A.26. On or after the date on which the initial performance (compliance) test is completed, the permittee must maintain daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber within the allowable ranges established pursuant the requirements of 40 CFR 63.625(f)(1) or 63.625(f)(2), as indicated in Condition A.26.

[40 CFR 63.624]

A.27. The permittee shall install, calibrate, maintain, and operate a monitoring system which can be used to determine and permanently record the mass flow of phosphorus-bearing feed material to the process. The monitoring system shall have an accuracy of $\pm 5\%$ over its operating range.

[40CFR 63.625(a)]

A.28. The permittee shall maintain a daily record of equivalent P_2O_5 feed by first determining the total mass rate of phosphorus bearing feed using a monitoring system for measuring mass flowrate which meets the requirements of 40 CFR 63.625(b) and then by proceeding according to 40 CFR 63.626(c)(3).

[40 CFR 63.625(b)]

A.29. The permittee shall install, calibrate, maintain, and operate the following monitoring systems:

A. Pressure Drop. A monitoring system which continuously measures and permanently records the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range.

B. Scrubbing Liquid Flow Rate. A monitoring system which continuously measures and permanently records the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range.

[40CFR 63.625(c)]

A.30. Following the date on which the performance test required in § 63.626 is completed, the owner or operator of a new or existing affected source using a wet scrubbing emission control system and subject to emissions limitations for total fluorides or particulate matter contained in this subpart must establish allowable ranges for operating parameters using the methodology of either paragraph (f)(1) or (2) of this section:

(1) The allowable range for the daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system is ± 20 percent of the baseline average value determined as a requirement of § 63.626(c)(4) or (d)(4). The Administrator retains the right to reduce the ± 20 percent adjustment to the baseline average values of operating ranges in those instances where performance test results indicate that a source's level of emissions is near the value of an applicable emissions standard, but, in no instance shall the adjustment be reduced to less than ± 10 percent. The owner or operator must notify the Administrator of the baseline average value and must notify the Administrator each time that the baseline value is changed as a result of the most recent performance test. The baseline average values used for compliance shall be based on the values determined during the most recent performance test. The new baseline average value shall be effective on the date following the performance test.

(2) The owner or operator of any new or existing affected source shall establish, and provide to the Administrator for approval, allowable ranges of baseline average values for the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with this subpart. Allowable ranges may be based upon baseline average values recorded during previous performance tests using the test methods required in this subpart and established in the manner required in § 63.626(c)(4) or (d)(4). As an alternative, the owner or operator can establish the allowable ranges of baseline average values using the results of performance tests conducted specifically for the purposes of this paragraph using the test methods required in this subpart and established in the manner required in § 63.626(c)(4) or (d)(4). The source shall certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. The allowable ranges of baseline average values developed pursuant to the provisions of this paragraph must be submitted to the Administrator for approval. The owner or operator must request and obtain approval of the Administrator for changes to the allowable ranges of baseline average values. When a source using the methodology of this paragraph is retested, the owner operator shall determine new allowable ranges of baseline average values unless the retest indicates no change in the operating parameters from previous tests. Any new allowable ranges of baseline average values resulting from the most recent performance test shall be effective on the date following the retest. Until changes to allowable ranges of baseline average values are approved by the Administrator, the allowable ranges for use in § 63.624 shall be based upon the range of baseline average values proposed for approval.

[40 CFR 63.625(f)]

A.31. To comply with § 63.625(f)(1) or (2), the owner or operator shall use the monitoring systems in § 63.625(c) to determine the average pressure loss of the gas stream across each scrubber in the process scrubbing system and to determine the average flow rate of the scrubber liquid to each scrubber in the process scrubbing system during each of the total fluoride runs. The arithmetic averages of the three runs shall be used as the baseline average values for the purposes of § 63.625(f)(1) or (2).

[40 CFR 63.626(c)(4)]

A.32. The permittee shall determine compliance with the total fluorides standard as required in 40 CFR 63.626(c), based on the equivalent P_2O_5 computed as indicated in 40 CFR 63.626(c)(3).

[40 CFR 63.626(c)]

A.33. The permittee must comply with the notification requirements in 40 CFR 63.9 and the reporting and recordkeeping requirements in 40 CFR 63.10. The reporting requirements in 40 CFR 63.10 includes the initial and annual performance test reports, excess emissions reports, and the summary report.
[40 CFR 63.627]

A.34. This emission unit is subject to specific requirements of 40 CFR 63, Subpart BB, Appendix A to Subpart BB – Applicability to General Provisions to Subpart BB, and alternative MACT monitoring plan (Administrative Order No. 03-C-AP, dated 01/22/2004). The owner or operator is responsible for remaining in compliance with any updates made to Subpart A or BB. To establish operating parameters for this emissions unit, the owner or operator must comply /and demonstrate with the following:

- 1) Must comply with all conditions of the Order No. 03-C-AP,
- 2) Must comply with all applicable requirements of Subparts A and BB,
- 3) Specifically notify the department the testing will be for establishing allowable ranges for this emissions unit according to Subparts A and BB,
- 4) All tests must be precisely conducted according to the MACT standards and all applicable test methods,
- 5) All tests must clearly demonstrate compliance with all MACT standards and applicable test methods and requirements,
- 6) All tests shall be submitted to the Department in accordance with Subparts A and BB,
- 7) The test results will become the new allowable ranges after the Department has had 30 days to review the test results. Failure to meet any requirements of this condition, Subpart A or BB, or the alternate plan will negate use of any new ranges derived from the test.

[40 CFR 63- Subpart A, 40 CFR 63- Subpart BB, and Administrative Order No. 3-C-AP, Alternate MACT Monitoring Plan]

Subsection B. This section addresses the following emissions unit(s).

E.U. ID

No.

Brief Description

-002

No. 4 Fertilizer Shipping Plant

The No. 4 Fertilizer Shipping Plant includes material conveyors, transfer points, and one (1) truck and two (2) rail car shipping bins and loadout spouts. All material transfer points are located inside the material handling building and are covered and evacuated to minimize fugitive emissions. The truck and rail car loading operations are beneath the building and enclosed on two sides. Loading is done via a chute feeder which is also controlled by dust suppressant.

An evacuation scrubber dust control system is used to control moisture in the building. The scrubber will be allowed to operate only when dust suppressant is being applied to control PM emissions. Any deviation from 100% dust suppressant to control PM emissions will result in compliance action and submittal of a Compliance Assurance Monitoring (CAM) Plan by the permittee for the scrubber.

{Permitting note(s): These emissions units are regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards.}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Capacity. The maximum truck and/or railcar product loading rate shall not exceed 660 tons per hour.

[Rule 62-4.160(2), F.A.C. and Rule 62-210.200, Definitions - (PTE), F.A.C.]

B.2. Hours of Operations The hours of operation for this emissions unit shall not exceed 6,000 hours in any 12 consecutive month period.

[Rule 62-210.200, F.A.C., Definitions - (PTE), Air Construction Permit AC53-239194, as requested by permittee, December 6, 1993]

Emission Limitations and Standards

B.3. Particulate Matter (PM) emissions will be controlled 100% by dust suppressant.

[Applicant Request, Letter dated October 28, 2004]

B.4. Any deviation from 100% dust suppressant to control PM emissions will result in compliance action and submittal of a Compliance Assurance Monitoring (CAM) Plan by the permittee for the scrubber. The conditions for the scrubber will remain in the permit. The scrubber will be used for moisture control in shipping building during loading operations.

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

B.5. Particulate matter (PM) emissions from the No. 4 Fertilizer Shipping Plant shall exceed neither 0.03 grains/dscf nor 10.54 pounds per hour (based upon a maximum exhaust gas flow rate of 41,000 dcsfm). Based upon the hours of operation limitation of Condition B.2, this results in a maximum annual emission rate limitation of 31.6 tons/12 consecutive month period.

[BACT Determination, January 2, 1981, Air Construction Permit AC53-239194]

B.6. Visible emissions from the No. 4 Fertilizer Shipping Plant evacuation scrubber dust control system shall be less than 20% opacity. The visible emissions test shall be conducted by a certified observer and

be a minimum of thirty minutes in duration, unless otherwise specified within. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur. [Rule 62-296.320(4)(a)(2) and (b), F.A.C., BACT Determination of January 2, 1981]

B.7. There shall be no visible emissions (i.e. opacity equal to or less than 5%) to the ambient atmosphere from any point of the No. 4 Fertilizer Shipping Plant when application of a dust suppressant is being used to control particulate emissions.

[Rule 62-4.070(3), F.A.C., Air Construction Permit AC53-239194, requested by permittee, December 6, 1993, Applicant Request, Letter dated October 28, 2004]

Test Methods and Procedures

B.8. Test the No. 4 Fertilizer Shipping Plant exhaust stack for particulates, and visible emissions annually. The annual particulate stack test can be waived, except a particulate stack test shall be conducted during the 180 day period prior to expiration of this air permit, by submittal of a statement that the dust suppressant oil system has been used and the scrubber system has not been used since the last compliance test. A performance test on the dust suppressant dust control system shall be conducted as specified in Condition B.9.

[Rules 62-297.310(7)(a)4, F.A.C. and 62-4.070(4), F.A.C.]

B.9. Compliance with the emission limitations of Conditions B.3., B.4. and B.5. shall be determined using EPA Methods 1, 2, 4, 5, 9 and 22 contained in 40 CFR 60, Appendix A and adopted by reference in Chapter 62-297, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60, Appendix A.

[Chapter 62-297, F.A.C.]

B.10. The permittee shall conduct a visible emissions performance test within 30 days of changing the type(s) or brand of dust suppression oils used at the No. 4 Fertilizer Shipping Plant. The report shall at a minimum include the following:

- a. The specific type of dust suppression oil to be used (include a MSDS sheet on this material if available);
- b. The point of application of the dust suppression oil, the minimum rate at which it will be applied, and a description of how the rate of application will be controlled and measured (for the purposes of recordkeeping);
- c. Statement of the results of observation of visible emissions from transfer and loading points when dust suppression oil is being applied at the minimum rate.

[Rule 62-4.070(3), F.A.C., Air Construction Permit AC53-239194, requested by permittee, December 6, 1993]

Monitoring of Operations

B.11. The scrubber shall be operated at or above the following minimum operating parameters established below:

Pollution Control Equipment	Parameter	Minimum Limitation	Units	Averaging Time
Scrubber	Flow	170	GPM	3 hr
	Pressure Drop	2.5	in. H ₂ O	3 hr

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

Recordkeeping and Reporting Requirements

B.12. In order to document compliance with Conditions B.1, B.2 and B.11, the permittee shall maintain the following records:

- a. Daily and monthly total hours of operation of the No. 4 Fertilizer Shipping Plant (time periods operated, and total hours/day and hours/month);
- b. Quantity of product loaded out each day (tons/day);
- c. For each period of operation, a statement of whether the evacuation and scrubber dust control system was in service or whether dust suppressant oil was being applied to the product being processed;
- d. For each period when dust suppressant oil was being used to control particulate emissions, a description of, and rate of application of the suppressant oil (gallons/minute or hour);
- e. For each period when the evacuation and scrubber dust control system was in service to control particulate emissions, a log of the following scrubber parameters shall be kept:
 1. pressure drop across the scrubber (in inches W.G.);
 2. water flow in GPM;
 3. scrubber fan amps;
 4. visual verification that the scrubber pump is operating properly.

An entry shall be made in the scrubber operation log for each of the above parameters at least once per shift.

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

Subsection C. This section addresses the following emissions unit(s).

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-004	No. 3 Fertilizer Shipping Plant

The No. 3 Fertilizer Shipping Plant has a maximum permitted MAP/DAP product railcar loading rate of 385.0 tons per hour. The product loading system includes material conveyors, transfer points, two parallel screens, surge bin, weigh belt and loading spouts.

All material transfer points are located inside the material handling building and are covered and evacuated to prevent fugitive emissions. The rail car loading operations are beneath the building and enclosed on two sides. Loading is done via a chute feeder which is also controlled by full-time utilization of dust suppressant to control the generation of dust.

{Permitting note(s): This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards. This emissions unit is exempted from Particulate Matter RACT (Rule 62-296.700(2)(b), F.A.C., and ref. Condition C.3.)}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

C.1. Capacity. The maximum railcar MAP/DAP product loading rate shall not exceed 385.0 tons per hour (average daily basis) and 2,310,000 tpy (12 consecutive month basis).

[Rule 62-4.160(2), F.A.C., Rule 62-210.200, Definitions - (PTE), F.A.C., Air Construction Permit 1050046-017-AC]

C.2. Hours of Operations The hours of operation for this emissions unit shall not exceed 6,000 hours per any 12 month consecutive period.

[Rule 62-210.200, Definitions - (PTE), F.A.C., as requested by permittee, August 5, 1994, Air Construction Permit 1050046-017-AC]

Emission Limitations and Standards

C.3. There shall be no visible emissions (i.e. opacity less than or equal to 5%) to the ambient atmosphere from any point of the No. 3 Fertilizer Shipping Plant when application of a dust suppressant is being used to control particulate emissions. Full-time utilization of dust suppressant is used to control the generation of dust.

[Rule 62-4.070(3), F.A.C., requested by permittee, August 5, 1994]

Test Methods and Procedures

C.4. Test the No. 3 Fertilizer Shipping Plant for visible emissions annually. A performance test on the dust suppressant dust control system shall be conducted as specified in Condition C.5.

[Rules 62-297.310(7)(a)4, F.A.C. and 62-4.070(3), F.A.C.]

C.5. The permittee shall conduct a visible emissions performance test within 30 days of changing the type(s) or brand of dust suppression oils used at the No. 3 Fertilizer Shipping Plant. The report shall at a minimum include the following:

- a. The specific type of dust suppression oil to be used (include a MSDS sheet on this material if available);

- b. The point of application of the dust suppression oil, the minimum rate at which it will be applied, and a description of how the rate of application will be controlled and measured (for the purposes of recordkeeping);
- c. Statement of the results of observation of visible emissions from transfer and loading points when dust suppression oil is being applied at the minimum rate.

[Rule 62-4.070(3), F.A.C., requested by permittee, August 5, 1994]

Recordkeeping and Reporting Requirements

C.6. In order to document compliance, the permittee shall maintain the following records:

- a. Quantity of product loaded out each day (tons/day);
- b. If suppressant oil was being used to control particulate emissions, a description of, and rate of application of the suppressant oil (gallons/minute or hour);

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

Subsection D. This section addresses the following emissions unit(s).

E.U. ID

No. Brief Description

-010 Phosphoric Acid Plant (No. 4 -- V-Train, No. 5 -- U-Train)

The Phosphoric Acid Plant (No. 4 -- V-Train, and No. 5 -- U-Train) has a design feed rate of 170 tons per hour equivalent P_2O_5 feed input. Fluoride emissions from the following sources are controlled by three separate scrubbers; one venturi scrubber and two cross flow packed scrubbers with an air flow rate range of 22,000 to 30,000 ACFM: No. 4 and No. 5 reactors, No. 3, No. 4, and No. 5 filters (filter feed box only), No. 3, No. 4, and No. 5 filtrate tanks (hot wells), No. 4 and No. 5 barometric condenser seal tanks, No. 1 and No. 2 Evaporator FSA Seal Tank, and No. 3 and No. 4 Evaporator FSA Seal Tank.

{Permitting note(s): These emissions units are regulated under NSPS - 40 CFR 60, Subpart T, Standards of Performance (NSPS) for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants, adopted and incorporated by reference in Rule 62-204.800(7)(b)25., F.A.C.; Rule 62-212.300, F.A.C., General Preconstruction Review Requirements; Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD); and Rule 62-296.403, F.A.C., Phosphate Processing; 40 CFR 63, Subpart A - General Provisions; 40 CFR 63, Subpart AA - National Emission Standards for Hazardous Air Pollutants (NESHAP) From Phosphoric Acid Manufacturing Plants. **The Part 40 CFR 63 Subparts A and AA take precedence over NSPS standards, but will not take precedence over BACT determinations. However these units are subject to all applicable NSPS standards if these units are out of compliance with the NESHAP. State Implementation Plan (SIP) rules apply if these units are out of compliance with the NSPS standards or if there is no applicable NSPS standard when out of compliance with the NESHAP}**

The following conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

D.1. Capacity. The maximum production rate of the Nos. 4 and 5 Phosphoric Acid Plants (combined) shall not exceed 170.0 tons P_2O_5 per hour of equivalent P_2O_5 feed⁽¹⁾ rate, and may operate 8760 hours per year. [Rule 62-4.160(2), F.A.C., and Rule 62-210.200, Definitions - (PTE), F.A.C., Air Construction Permits AC53-262532/PSD-FL-224 and 1050046-013-AC/PSD-FL-295]

{Permitting Note: 586.2 tons per hour of phosphate rock is equivalent to 170 tons of P_2O_5 ; Phosphate rock is typically 29% P_2O_5 , $170 \text{ TPH} \div 0.29 = 586.2 \text{ TPH}$ of phosphate rock. See Conditions D.16 and D.17 for NESHAP requirements for monitoring and recordkeeping of the equivalent P_2O_5 feed rate.}

⁽¹⁾ **"Equivalent P_2O_5 Feed Rate"** - the quantity of phosphorus, expressed as phosphorous pentoxide, feed to the process.

Emission Limitations and Standards

D.2. The total fluoride emissions⁽²⁾ shall not exceed 0.01 lbs/ton of equivalent P_2O_5 feed. [Air Construction Permit 1050046-013-AC/PSD-FL-295; 40 CFR 63.602(b)(1)]

⁽²⁾ **"Total Fluoride Emissions"** - elemental fluorine and all fluoride compounds as measured by reference methods specified in 40 CFR 60.204, or equivalent or alternative methods as approved by the Department.

D.3. 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 (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(1), F.A.C.]

D.4. 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(4), F.A.C.]

D.5. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection 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 62-210.700(6), F.A.C.]

Test Methods and Procedures

D.6. The permittee shall test the emissions from Nos. 4 and 5 Phosphoric Acid Train scrubbers, and No. 3 Filter process scrubber simultaneously. The permittee shall test annually to demonstrate compliance with the applicable emissions standards of 40 CFR 63, Subpart AA.

[Rules 62-297.310(7)(a)4, 62-296.800, F.A.C., and 40CFR60.202(a) ; 40 CFR 63.606(a)(1) and 63.609(a)]

D.7. Compliance with the fluoride emission limitation of Condition D.2 shall be determined using EPA Methods 1, 2, 3, 4 and 13A or 13B as contained in 40 CFR 60, Appendix A and adopted by reference in Chapter 62-297, F.A.C. The minimum requirements for stack sampling facilities, sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60, Appendix A. Starting no later than the compliance date of 40 CFR 63, Subpart AA, June 10, 2002, the permittee shall test annually according to the procedures in 40 CFR 63, Subparts A and AA.

[Chapter 62-297, F.A.C.; 40 CFR 63.606(b)]

Monitoring of Operations

Conditions D.8. and D.9 are applicable to the monitoring, reporting, recordkeeping, and excess emissions reporting requirements of 40 CFR 63, Subpart AA (See NESHAP Conditions D.15 through D.26) and 40 CFR 63, Subpart A.

D.8. The pollution control equipment shall be operated in accordance with the Department approved Alternate Monitoring Plan for the scrubbers associated with this unit. Modification of the Alternate Monitoring Plan requires Department approval as referenced in Condition D.22.

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

D.9. In order to provide reasonable assurance that the fluoride emission limitation of Condition D.2 is being met, the permittee shall create and keep a record log of the scrubber operating parameters for each plant. The record log shall contain, at a minimum:

- a. the water flow rate (gallons per minute),
- b. the scrubber pressure drop (inches of water),
- c. the date and time of the measurements, and
- d. the name of the person responsible for performing the measurements.

A log entry shall be made at least once for every shift (12 hours) that the Phosphoric Acid Plant operates.

NOTE: The permittee may substitute continuous monitoring and strip chart recordings for the manual recordkeeping required by this Condition.

[Rules 62-4.070(3), 62-4.160(14)(b), 62-4.160(14)(c), and 62-213.440(b)2.b., F.A.C.]

Continuous Monitoring Requirements

Conditions D.10 and D.11 are applicable to the monitoring, reporting, recordkeeping, and excess emissions reporting requirements of 40 CFR 63, Subpart AA (See NESHAP Conditions D.15 through D.26) and 40 CFR 63, Subpart A.

D.10 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 $\pm 5\%$ over its operating range.

[40CFR60.203(a)]

D.11. The permittee shall install, calibrate, maintain, and operate a monitoring device which continuously measures and permanently records the total pressure drop across the process scrubbing system. The monitoring device shall have an accuracy of $\pm 5\%$ over its operating range.

[40CFR60.203(c)]

Recordkeeping and Reporting Requirements

Conditions D.12. and D.13 are applicable to the monitoring, reporting, recordkeeping, and excess emissions reporting requirements of 40 CFR 63, Subpart AA (See NESHAP Conditions D.15 through D.26) and 40 CFR 63, Subpart A.

D.12. The permittee shall maintain a daily record of the equivalent P_2O_5 feed rate for the phosphoric acid plant according to the procedure specified in 40CFR60.203(b)- *Monitoring of Operations*.

[40CFR60.203 and Rule 62-4.070(3), F.A.C.]

D.13. The monitoring devices required by Conditions D.10 and D.11 for the equivalent P_2O_5 feed rate and the total pressure drop measurement across the scrubber are considered inoperative when they are out-of-service or fail to produce valid data. Upon the occurrence of 48 consecutive hours of continuous monitoring system downtime, the permittee shall notify the Air Compliance Section, Southwest District Office of the Department by 5:00 p.m., or on the Department's next business day, of the incident and specify the corrective action being pursued.

Notify: Air Compliance Supervisor
Southwest District Office
Department of Environmental Protection
Telephone: (813) 744-6100
FAX: (813) 744-6458

[Rule 62-4.130, F.A.C.]

D.14. The following scrubber operating parameters shall be monitored and recorded during the compliance test and a summary of this data shall be included with the fluoride emissions test report:

- a. the water flow rate (gallons per minute)
- b. the scrubber pressure drop (inches of water)
- c. "equivalent P_2O_5 feed" rate

NOTE: The permittee may substitute continuous monitoring and strip chart recordings for the manual recordkeeping required by this Condition.

[Rules 62-4.070(3), 62-4.160(14)(b), and 62-4.160(14)(c), F.A.C.]

NESHAP Conditions

D.15. The permittee shall achieve compliance with the requirements of 40 CFR 63, Subpart AA no later than June 10, 2002.

[40 CFR 63.609(a)]

D.16. This emissions unit is exempted from the requirements in NSPS, 40 CFR 60, Subpart T effective upon the date that the permittee demonstrates compliance with 40 CFR 63, Subpart AA.

[40 CFR 63.610]

D.17. This emissions unit is subject to specific requirements in the 40 CFR 63, Subpart A - General Provisions.

[40 CFR 63, Appendix A of Subpart AA]

D.18. On or after the date on which the initial performance (compliance) test is completed, the permittee shall maintain daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber within the allowable ranges established pursuant to 40 CFR 63.605(d)(1) or (2), as indicated in Condition D.19

[40 CFR 63.604]

D.19. The permittee shall install, calibrate, maintain, and operate a monitoring system which can be used to determine and permanently record the mass flow of the phosphorus-bearing feed to the process. The monitoring system shall have an accuracy of $\pm 5\%$ over its operating range.

[40 CFR 63.605(a)]

D.20. The permittee shall maintain a daily record of equivalent P_2O_5 feed by first determining the total mass rate of the phosphorus bearing feed using a monitoring system for measuring mass flowrate which meets the requirements of 40 CFR 63.605(a) and using the calculation method of 40 CFR 63.606(c)(3).

[40 CFR 63.605(b)(1)]

D.21. The permittee shall install, calibrate, maintain, and operate the following monitoring systems:

A. Pressure Drop. A monitoring system which continuously measures and permanently records the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range.

B. Scrubbing Liquid Flow Rate. A monitoring system which continuously measures and permanently records the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range.

[40CFR 63.605(c)]

D.22. Following the date on which the performance test required in § 63.606 is completed, the owner or operator of a new or existing affected source using a wet scrubbing emission control system and subject to emissions limitations for total fluorides or particulate matter contained in this subpart must establish allowable ranges for operating parameters using the methodology of either paragraph (d)(1) or (2) of this section:

(1) The allowable range for the daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system is ± 20 percent of the baseline average value determined as a requirement of § 63.606(c)(4), (d)(4), or (e)(2). The Administrator retains the right to reduce the ± 20 percent adjustment to the baseline average values of operating ranges in those instances where performance test results indicate that a source's level of

emissions is near the value of an applicable emissions standard, but, in no instance shall the adjustment be reduced to less than ± 10 percent. The owner or operator must notify the Administrator of the baseline average value and must notify the Administrator each time that the baseline value is changed as a result of the most recent performance test. The baseline average values used for compliance shall be based on the values determined during the most recent performance test. The new baseline average value shall be effective on the date following the performance test

(2) The owner or operator of any new or existing affected source shall establish, and provide to the Administrator for approval, allowable ranges of baseline average values for the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with this subpart. Allowable ranges may be based upon baseline average values recorded during previous performance tests using the test methods required in this subpart and established in the manner required in § 63.606(c)(4), (d)(4), or (e)(2). As an alternative, the owner or operator can establish the allowable ranges of baseline average values using the results of performance tests conducted specifically for the purposes of this paragraph using the test methods required in this subpart and established in the manner required in § 63.606(c)(4), (d)(4), or (e)(2). The source shall certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. The allowable ranges of baseline average values developed pursuant to the provisions of this paragraph must be submitted to the Administrator for approval. The owner or operator must request and obtain approval of the Administrator for changes to the allowable ranges of baseline values. When a source using the methodology of this paragraph is retested, the owner operator shall determine new allowable ranges of baseline average values unless the retest indicates no change in the operating parameters from previous tests. Any new allowable ranges of baseline average values resulting from the most recent performance test shall be effective on the date following the retest. Until changes to allowable ranges of baseline average values are approved by the Administrator, the allowable ranges for use in § 63.604 shall be based upon the range of baseline average values proposed for approval.
[40 CFR 63.605(d)]

D.23. To comply with § 63.605(d)(1) or (2), the owner or operator shall use the monitoring systems in § 63.605(c) to determine the average pressure loss of the gas stream across each scrubber in the process scrubbing system and to determine the average flow rate of the scrubber liquid to each scrubber in the process scrubbing system during each of the total fluoride runs. The arithmetic averages of the three runs shall be used as the baseline average values for the purposes of § 63.605(d)(1) or (2).
[40 CFR 63.606(c)(4)]

D.24. The permittee shall determine compliance with the total fluorides standard as required in 40 CFR 63.606(c), based on the equivalent P_2O_5 computed as indicated in 40 CFR 63.606(c)(3).
[40 CFR 63.606(c)]

D.25. The permittee must comply with the notification requirements in 40 CFR 63.9 and the reporting and recordkeeping requirements in 40 CFR 63.10. The reporting requirements in 40 CFR 63.10 includes the initial and annual performance test reports, excess emissions reports, and the summary report.
[40 CFR 63.607]

D.26. Pursuant to Rule 62-210.700, F.A.C., Emission Unit -010 is subject to the following:

a. Excess emission 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.

b. 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.

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.

d. In case of excess emissions resulting from malfunctions, each source shall notify the Department 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 62-210.700, F.A.C., Air Construction Permit 1050046-013-AC/PSD-FL-295]

D.27. This emission unit is subject to specific requirements of 40 CFR 63, Subpart AA, Appendix A to Subpart AA– Applicability to General Provisions to Subpart AA, and alternative MACT monitoring plan (Administrative Order No. 03-C-AP, dated 01/22/2004). The owner or operator is responsible for remaining in compliance with any updates made to Subpart A or AA. To establish operating parameters for this emissions unit, the owner or operator must comply and demonstrate with the following:

- 1) Must comply with all conditions of the Order No. 03-C-AP,
- 2) Must comply with all applicable requirements of Subparts A and AA,
- 3) Specifically notify the department the testing will be for establishing allowable ranges for this emissions unit according to Subparts A and AA,
- 4) All tests must be precisely conducted according to the MACT standards and all applicable test methods,
- 5) All tests must clearly demonstrate compliance with all MACT standards and applicable test methods and requirements,
- 6) All tests shall be submitted to the Department in accordance with Subparts A and AA,
- 7) The test results will become the new allowable ranges after the Department has had 30 days to review the test results. Failure to meet any requirements of this condition, Subpart A or AA, or the alternate plan will negate use of any new ranges derived from the test.

[40 CFR 63- Subpart A, 40 CFR 63- Subpart AA, and Administrative Order No. 3-C-AP, Alternate MACT Monitoring Plan]

Subsection E. This section addresses the following emissions unit(s).

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-012	No. 4 Sulfuric Acid Plant
-032	No. 6 Sulfuric Acid Plant
-033	No. 5 Sulfuric Acid Plant

Sulfur dioxide from each sulfuric acid plant (Nos. 4, 5, and 6) is controlled by a dual absorption tower, and acid mist is controlled by HV and HE mist eliminators. Each plant produces a maximum of 2600 tons per day of sulfuric acid (100% H₂SO₄ basis).

{Permitting note(s): This emissions unit is regulated under NSPS - 40 CFR 60, Subpart H, Standards of Performance for Sulfuric Acid, adopted and incorporated by reference in Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-212.300, F.A.C., General Preconstruction Review Requirements; Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD); Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 296.402, F.A.C., Sulfuric Acid Plants.}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

E.1. Capacity. The production rate of sulfuric acid for each plant, measured as 100% H₂SO₄, shall not exceed 2600 tons per day (108.33 tons/hr daily average basis).

[Air Construction permit AC53-271436/PSD-FL-229, Rule 62-4.160(2), F.A.C. and Rule 62-210.200, Definitions - (PTE), F.A.C.]

Emission Limitations and Standards

E.2. Visible emissions from each plant shall not be equal to or greater than 10% opacity. The visible emissions test shall be conducted by a certified observer and be a minimum of thirty minutes in duration, unless otherwise specified within. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur.

[Rule 62-204.800(7)(b)(10), F.A.C., Rule 62-297.310(4)(a)(2), and 40 CFR 60.83(a)(2)]

E.3. Sulfur dioxide emissions from each plant shall not exceed any of the following:

- a. 4 pounds per ton of 100% H₂SO₄ produced;
- b. 433.3 pounds per hour;
- c. 1898 tons per year.

[Rule 62-204.800(7)(b)10, F.A.C., 40 CFR 60.82(a), and Air Construction Permit AC53-271436/PSD-FL-229]

E.4. Acid (H₂SO₄) mist emissions for each plant shall not exceed any of the following:

- a. 0.15 pounds per ton of 100% H₂SO₄ produced;
- b. 16.25 pounds per hour;
- c. 71.2 tons per year.

[Rule 62-204.800(7)(b)10, F.A.C., 40 CFR 60.83(a)(1), and Air Construction Permit AC53-271436/PSD-FL-229]

E.5. Nitrogen oxides emissions from each plant shall not exceed any of the following:

- a. 0.12 pounds per ton of 100% H₂SO₄ produced;
- b. 13.0 pounds per hour;

c. 57.0 tons per year.

[Air Construction Permit AC53-271436/PSD-FL-229]

Test Methods and Procedures

E.6. Test the emissions from each plant for the following pollutants annually for:

- a. Visible Emissions
- b. Sulfur Dioxide
- c. Acid Mist

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

E.7. Test the nitrogen oxides emissions from each plant, on or during the 180 day period prior to the expiration date of this permit.

[Rule 62-297.310(7)(a)3, F.A.C.]

E.8. Compliance with the emission limitations of Conditions E.2, E.3, E.4, and E.5 shall be determined in accordance with 40 CFR 60.85 using EPA Methods 1, 2, 3, 7E, 8, and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Chapter 62-297, F.A.C. The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60, Appendix A.

[Chapter 62-297, F.A.C.]

Excess Emissions

E.9. Excess emissions resulting from startup, shutdown, or malfunction are permitted providing: (1) best operational practices to minimize emissions are adhered to and; (2) the duration of excess emissions are minimized. 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. In case of excess emissions resulting from malfunctions, the permittee shall notify the Department 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.

[Rules 62-210.700(1), (4), and (6), F.A.C.]

E.10. This permit acknowledges that leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions that do not pass through a stack, may occur as part of routine operations. Best operational practices to minimize these emissions shall be adhered to and shall include regular inspections and the prompt repair or correction of any leaks or other fugitive emissions.

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

Continuous Monitoring Requirements

E.11. For each plant, a continuous emission monitoring system for the measurement of sulfur dioxide shall be calibrated, maintained and operated as specified in 40 CFR 60.84. The span value of the continuous monitor shall be set at 1000 ppm.

[Rules 62-204.800(7)(b)10 and 62-297.500, F.A.C., and 40 CFR 60.84]

E.12. The permittee shall determine emissions in the units of the applicable standard (lb/ton) in accordance with 40 CFR 60.84(b) or (d).

[Rules 62-204.800(7)(b)10 and 62-297.500, F.A.C., and 40 CFR 60.84]

Recordkeeping and Reporting Requirements

E.13. In order to document ongoing compliance with the emission limitations of Condition E.3, the permittee shall maintain monthly records of Sulfuric Acid Plant sulfur dioxide (SO₂) emissions for each emission unit. The records shall include the following for each day of the month:

- a. daily acid production (in tons as 100% H₂SO₄);
- b. hours operated;
- c. daily average pounds/ton SO₂;

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

E.14. For each plant, the permittee shall submit a written report of excess sulfur dioxide emissions each calendar quarter in accordance with 40 CFR 60.7 (b) and (c) and Rule 62-296.402(4), F.A.C. Periods of excess emissions shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standard under 40 CFR 60.82. The excess emission report shall also include a statement of all periods during the quarter when the sulfur dioxide monitoring system was inoperative. The quarterly sulfur dioxide excess emission report shall be submitted to the Southwest District Office of the Department. All reports shall be postmarked by the 30th day following the end of each calendar quarter.

[Rules 62-204.800(7)(b)10, and 62-213.440(1)(b)2.b, F.A.C. and 40 CFR 60.7 and 60.84(e)]

E.15. For each plant, the permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system (sulfur dioxide) or monitoring device is inoperative. Records on monitoring system performance evaluations, calibrations and maintenance shall be maintained in accordance with 40 CFR 60.7(d).

[Rules 62-204.800(7)(b)10 and 62-213.440(1)(b)2.b, F.A.C. and 40 CFR 60.7]

E.16. The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection.

[Rules 62-204.800(7)(b)10 and 62-213.440(b)2.b, F.A.C. and 40 CFR 60.7(d)]

Operational Procedures

E.17. Not federally enforceable. The permittee shall follow the *MEMORANDUM OF UNDERSTANDING REGARDING BEST OPERATIONAL START-UP PRACTICES FOR SULFURIC ACID PLANTS*. [Signed and Executed on October 25, 1989, Rules 62-4.070(3) and 62-210.700(1), F.A.C.]

Not federally enforceable.

MEMORANDUM OF UNDERSTANDING
REGARDING BEST OPERATIONAL START-UP PRACTICES
FOR SULFURIC ACID PLANTS

These Sulfuric Acid Plant Best Operation Start-Up Practices will be made available in the control room at all times.

1. Only one sulfuric acid plant at a facility should be started up and burning sulfur at a time, There are times when it will be acceptable for more than one sulfuric acid plant to be in the start-up mode at the same time, provided the following condition is met. It is not acceptable to initiate sulfur burning at one sulfuric acid plant when another plant at the same facility is emitting SO₂ at a rate in excess of the emission limits imposed by the permit or rule, as determined by the CEMs emission rates for the immediately preceding 20 minutes.

2. A plant start-up must be at the lowest practicable operating rate, not to exceed 70 percent of the designated operating rate, until the SO₂ monitor indicates compliance, Because production rate is difficult to measure during start-up, if a more appropriate indicator (such as blower pressure, furnace temperature, gas strength, blower speed, number of sulfur guns operating, etc.) can be documented, tested and validated, the Department will accept this in lieu of directly documenting the operating rate. Implementation requires the development of a suitable list of surrogate parameters to demonstrate and document the reduced operating rate on a plant-by-plant basis. Documentation that the plant is conducting start-up at the reduced rate is the responsibility of the owner or operator.

3. Sulfuric acid plants are authorized to emit excess emissions from start-up for a period of three consecutive hours provided best operational practices, in accordance with this agreement, to minimize emissions are followed. No plant shall be operated (with sulfur as fuel) out of compliance for more than three consecutive hours, Thereafter, the plant shall be shut down, The plant shall be shut down (cease burning sulfur) if, as indicated by the continuous emission monitoring system, the plant is not in compliance within three hours of start-up, Restart may occur as soon as practicable following any needed repairs or adjustments, provided the corrective action is taken and properly documented.

4. Cold Start-Up Procedures.

a. Converter.

(1) The inlet and outlet temperature at the first two masses of catalyst shall be sufficiently high to provide immediate ignition when SO₂ enters the masses, In no event shall the inlet temperature to the first mass be less than 800°F or the outlet temperature to the first two masses be less than 700°F. These temperatures are the desired temperatures at the time the use of auxiliary fuel is terminated.

(2) The gas stream entering the converter shall contain SO₂ at a level less than normal, and sufficiently low to promote catalytic conversion to SO₃.

b. Absorbing Towers.

The concentration, temperature and flow of circulating acid shall be as near to normal conditions as reasonably can be achieved. In no event shall the concentration be less than 96 percent H₂SO₄.

5. Warm Restart.

a. Converter.

The inlet and outlet temperatures of the first two catalyst masses should be sufficiently high to ensure conversion. one of the following three conditions must be met:

- (1) The first two catalyst masses inlet and outlet temperatures must be at a minimum of 700°F; or
- (2) Two of the four inlet and outlet temperatures must be greater than or equal to 800°F; or
- (3) The inlet temperature of the first catalyst must be greater than or equal to 600°F and the outlet temperature greater than or equal to 800°F. Also, the inlet and outlet temperatures of the second catalyst must be greater than or equal to 700°F.

Failure to meet one of the above conditions, requires use of cold start-up procedures.

To allow for technological improvements or individual plant conditions, alternative conditions will be considered by the Department in appropriate cases.

b. Absorbing Towers.

The concentration, temperature and flow of circulating acid shall be as near to normal conditions as reasonably can be achieved, In no event shall the concentration be less than 96 percent H_2SO_4 .

Subsection F. This section addresses the following emissions unit(s).

E.U. ID

No.

Brief Description

-021

Diammonium Phosphate Fertilizer Plant

The Diammonium Phosphate (DAP) Fertilizer Plant (No. 4) consists of a dryer, cooler, reactor and granulator. Emissions from the dryer pass through the venturi, cyclonic and cross-flow scrubbers. Emissions from the cooler pass through a separate cross-flow scrubber. Emissions from the reactor, granulator, screen vents and material handling systems pass through a separate RGV scrubbing system consisting of venturi, cyclonic and cross-flow scrubbers. The exhaust from all three processes is discharged through a common stack.

{Permitting note(s): These emissions units are regulated under NSPS - 40 CFR 60, Subpart V, Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants, adopted and incorporated by reference in Rule 62-204.800(7)(b)27., F.A.C.; Rule 62-212.300, F.A.C., General Preconstruction Review Requirements; 62-212.400, F.A.C., Prevention of Significant Deterioration; Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.403, F.A.C., Phosphate Processing; 40 CFR 63, Subpart A - General Provisions; 40 CFR 63, Subpart BB - National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants. **The Part 40 CFR 63 Subparts A and BB take precedence over NSPS standards, but will not take precedence over BACT determinations. However these units are subject to all applicable NSPS standards if these units are out of compliance with the NESHAP. State Implementation Plan (SIP) rules apply if these units are out of compliance with the NSPS standards or if there is no applicable NSPS standard when out of compliance with the NESHAP.**}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

F.1. Capacity.

- a. The maximum production rate for the diammonium phosphate fertilizer plant shall not exceed 261 tons of DAP per hour (daily average basis; 120 TPH @ 100% P₂O₅) and 2,170,212 tons of DAP per year.
- b. The maximum heat input rate to the dryer shall not exceed 40 MMBtu per hour (daily average basis).

[Air Construction Permit AC53-246403/PSD-FL-211, Rule 62-4.160(2), F.A.C. and Rule 62-210.200, , Definitions - (PTE), F.A.C.]

{Permitting Note: See Conditions F.24 and F.25 for the NESHAP requirements for monitoring and recordkeeping of the equivalent P₂O₅ feed rate.}

F.2. Hours of Operation. The hours of operation for this emissions unit shall not exceed 8,500 hours in any 12 consecutive month period.

[Rule 62-210.200, Definitions - (PTE), F.A.C., Air Construction Permit AC53-246403/PSD-FL-211]

F.3. Methods of Operation - (i.e., Fuels).

- a. The dryer shall be fired with natural gas as the primary fuel, or new No. 6 fuel oil. The No. 6 fuel oil is for emergency use only. The fuel oil shall contain no more than 2.4% sulfur, by weight.
- b. The oil firing rate for the DAP Fertilizer Plant Dryer shall not exceed 200,000 gallons per year of No. 6 fuel oil.

[Rules 62-4.160(2), F.A.C. and 62-213.440(1), F.A.C., Air Construction Permit AC53-246403/PSD-FL-211, BACT determination November 14, 1994]

{Permitting notes: When this Subsection F refers to "No. 6 fuel oil" it applies equally to Nos. 2 through 5 fuel oil.}

Emission Limitations and Standards

F.4. Fluoride emissions from the Diammonium Phosphate Fertilizer Plant (No. 4) shall not exceed any of the following:

- a. 0.06 pound of fluoride per ton of equivalent P_2O_5 feed (30 g/metric ton) ;
- b. 5.50 pounds of fluoride per hour;
- c. 23.40 tons of fluorides per year.

[40 CFR 60.222, Air Construction Permit AC53-246403/PSD-FL-211]

{Permitting Note: The fluoride emission limit in Condition F.4. of 0.06 lb/ton equivalent P_2O_5 feed is the same as the applicable NESHAP, 40 CFR 63.622(a) limit of 0.06 lb/ton of equivalent P_2O_5 feed. The permittee shall comply with the applicable requirements of the NESHAP, 40 CFR 63, Subparts A and BB.

F.5. Particulate emissions from the Diammonium Phosphate Fertilizer Plant (No. 4) shall not exceed any of the following:

- a. 0.19 pound of particulate per ton of equivalent P_2O_5 feed;
- b. 22.8 pounds of particulate per hour;
- c. 96.9 tons of particulate per year.

[Air Construction Permit AC53-246403/PSD-FL-211, BACT determination November 21, 1994]

F.6. Visible emissions shall be not exceed 10% opacity. The visible emissions test shall be conducted by a certified observer and be a minimum of thirty minutes in duration, unless otherwise specified within. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur.

[Air Construction Permit AC53-246403/PSD-FL-211, Rule 62-297.310(4)(a)2, F.A.C.]

F.7. Fugitive emissions from the process, conveying and storage equipment shall be controlled by sealing and/or venting particulate matter and fumes from the equipment to the pollution abatement system.

[Air Construction Permit AC53-246403/PSD-FL-211]

F.8. 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 (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(1), F.A.C.]

F.9. 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(4), F.A.C.]

F.10. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection 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 62-210.700(6), F.A.C.]

Test Methods and Procedures

F.11. Test the Diammonium Phosphate Fertilizer Plant (No. 4) for particulates, fluorides, and visible emissions annually, on or during the 60 day period prior to August 5.

[Rules 62-297.310(7)(a)4, and 62-4.070(4), F.A.C. ; 40 CFR 63.626(a)(1) and 63.630(a)]

F.12. Compliance with the emission limitations of Conditions F.4., F.5. and F.6. shall be determined using EPA Methods 1, 2, 3, 4, 5, 9, and 13A or 13B contained in 40 CFR 60, Appendix A and adopted by reference in Chapter 62-297, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60, Appendix A. [Chapter 62-297, F.A.C.; 40 CFR 63.626(b) and 63.630(a)]

F.13. Compliance testing of the dryer shall be conducted while firing oil in the dryer, if No. 6 fuel oil has been used in the dryer for a sum total of more than 400 hours from the previous test. If a test is conducted while firing natural gas, and in the 12 month period following the test, fuel oil of any type is burned for a sum total of more 400 hours, then an additional emissions test (visible emissions and sulfur content) per Conditions F.6 and F.11 shall be conducted, while burning oil in that source, within 30 days of having exceeded the 400 hour oil burning limit.

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

F.14. If testing is conducted while firing fuel oil in the dryer, compliance with the sulfur content requirement of Condition F.3 shall be demonstrated during the test by submitting either of the following with the test report:

- a. A Certificate of Fuel Oil Analysis from your fuel oil vendor for the fuel used during the compliance test; or
- b. A Certificate of Fuel Oil Analysis for a fuel oil sample taken during the compliance test.

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

Monitoring of Operations

Conditions F.15, F.16, and F.17 are applicable to NESHAP, 40 CFR 63, Subparts A and BB requirements.

F.15. The permittee shall calibrate, maintain, and operate a flow 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 $\pm 5\%$ over its operating range.

[40 CFR 60.223(a)]

F.16. In order to provide reasonable assurance that the fluoride emission limitation is being met, the permittee shall create and keep a record log of the scrubber operating parameters. The record log shall contain, at a minimum:

- a. the water flow rate (gallons per minute),
- b. the scrubber pressure drop (inches of water),
- c. the date and time of the measurements, and
- d. the name of the person responsible for performing the measurements.

A record log entry for each scrubber shall be made at least once for every shift when the Ammonium Phosphate Fertilizer Plant operates.

NOTE: The permittee may substitute continuous monitoring and strip chart recordings for the manual recordkeeping required by this Condition.

[Rules 62-4.070(3), 62-4.160(14)(b), and 62-4.160(14)(c), F.A.C.]

F.17. The scrubbers shall be operated at or above the following minimum operating parameters established below:

Pollution Control Equipment	Parameter	Minimum Limitation	Units	Averaging Time
Cooler Scrubber	Flow (pond water)	250	GPM	3 hr
	Pressure Drop	1	in. H ₂ O	3 hr
Dryer Tailgas Scrubber	Flow (pond water)	1,100	GPM	3 hr
	Pressure Drop	4	in. H ₂ O	3 hr
RGV Tailgas Scrubber	Flow (pond water)	1,600	GPM	3 hr
	Pressure Drop	4	in. H ₂ O	3 hr
Dryer Venturi & Cyclonic	Flow (recovery soln)	250	GPM	3 hr
	Pressure Drop	4	in. H ₂ O	3 hr
RGV Venturi & Cyclonic	Flow (recovery soln)	900	GPM	3 hr
	Pressure Drop	13	in. H ₂ O	3 hr

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

Continuous Monitoring Requirements

Condition F.15 is applicable to monitoring, reporting, recordkeeping, and excess emissions reporting requirements of 40 CFR 63, Subpart BB (See NESHAP Conditions F.23 through F.32) and 40 CFR 63, Subpart A.

F.18. The permittee shall calibrate, maintain and operate a monitoring device which continuously measures and permanently records total pressure drop across each scrubber system. The monitoring device shall have an accuracy of $\pm 5\%$ over its operating range.

[40 CFR 60.223(c)]

Recordkeeping and Reporting Requirements

Condition F.19 is applicable to monitoring, reporting, recordkeeping, and excess emissions reporting requirements of 40 CFR 63, Subpart BB (See NESHAP Conditions F.23 through F.32) and 40 CFR 63, Subpart A.

F.19. The permittee shall maintain a daily record of equivalent P₂O₅ feed by first determining the total mass in tons per hour of phosphorus-bearing feed using a monitoring device for determining mass flow rate which meets the requirements of F.15 and then by processing according to 40 CFR 60.224(b)(3).

[40 CFR 60.223(b)]

F.120. In order to document continuing compliance with the maximum sulfur content requirement of Condition F.3, the permittee shall maintain a record of the sulfur content of the fuel oil received for use in the dryer. These records may be based on vendor supplied information or analysis of samples taken by the permittee in accordance with Rule 62-297.440, F.A.C.

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

F.21. A daily record log(s) shall be established and maintained to document, at a minimum, the following:

- the quantity of natural gas and the quantity of No. 6 fuel oil utilized in the dryer.
- the sulfur content (percent, by weight) of No. 6 fuel oil utilized in the dryer. The sulfur content may be based upon vendor supplied as-delivered oil sulfur content information, or an oil analysis.
- the total hours of dryer operation using oil of any type.

- d. the total hours of dryer operation using oil of any type for each rolling 12 consecutive month period (hours per 12 months).
- e. hourly production of diammonium phosphate (daily average basis). [AC53-246403/PSD-FL-211]

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

{Permitting Note: See NESHAP Conditions (Conditions F.23. through F.32) as well as 40 CFR 63, Subpart A, for additional recordkeeping requirements.}

F.22. All test reports submitted to the Department shall include, at a minimum, the following information for the test period:

- a. Type of fuel being fired.
- b. Heat input rate (MMBtu per hour) and firing rate (MCF per hour or gallons per hour).
- c. Material process input rate (tons per hour) and production rate (tons per hour).
- d. Scrubber liquid flow rate (gpm).
- e. If the test was conducted while firing natural gas, then include a statement of the total hours of dryer operation while firing fuel oil, of any type, during the 12 consecutive month period prior to the test.

Failure to submit the above information, or operating at conditions which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance.

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

{Permitting Note: See NESHAP Conditions (Conditions F.23. through F.32) as well as 40 CFR 63, Subpart A, for additional monitoring and recordkeeping requirements during performance tests.}

NESHAP Conditions

F.23. The permittee shall achieve compliance with the requirements of 40 CFR 63, Subpart BB no later than June 10, 2002.
[40 CFR 63.630(a)]

F.24. This emissions unit is exempted from the requirements in NSPS, 40 CFR 60, Subpart V effective upon the date that the permittee demonstrates compliance with 40 CFR 63, Subpart BB.
[40 CFR 63.631]

F.25. This emissions unit is subject to specific requirements in the 40 CFR 63, Subpart A - General Provisions.
[40 CFR 63, Appendix A of Subpart BB]

F.26. On or after the date on which the initial performance (compliance) test is completed, the permittee must maintain daily average of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber within the allowable ranges established pursuant the requirements of 40 CFR 63.625(f)(1) or 63.625(f)(2), as indicated in Condition F.27.
[40 CFR 63.624]

F.27. The permittee shall install, calibrate, maintain, and operate a monitoring system which can be used to determine and permanently record the mass flow of phosphorus-bearing feed material to the process. The monitoring system shall have an accuracy of $\pm 5\%$ over its operating range.
[40CFR 63.625(a)]

F.28. The permittee shall maintain a daily record of equivalent P_2O_5 feed by first determining the total mass rate of phosphorus bearing feed using a monitoring system for measuring mass flowrate which meets the requirements of 40 CFR 63.625(b) and then by proceeding according to 40 CFR 63.626(c)(3).
[40 CFR 63.625(b)]

F.29. The permittee shall install, calibrate, maintain, and operate the following monitoring systems:

- A. Pressure Drop.** A monitoring system which continuously measures and permanently records the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range.
- B. Scrubbing Liquid Flow Rate.** A monitoring system which continuously measures and permanently records the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range.

[40CFR 63.625(c)]

F.30. Following the date on which the performance test required in § 63.626 is completed, the owner or operator of a new or existing affected source using a wet scrubbing emission control system and subject to emissions limitations for total fluorides or particulate matter contained in this subpart must establish allowable ranges for operating parameters using the methodology of either paragraph (f)(1) or (2) of this section:

(1) The allowable range for the daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system is ± 20 percent of the baseline average value determined as a requirement of § 63.626(c)(4) or (d)(4). The Administrator retains the right to reduce the ± 20 percent adjustment to the baseline average values of operating ranges in those instances where performance test results indicate that a source's level of emissions is near the value of an applicable emissions standard, but, in no instance shall the adjustment be reduced to less than ± 10 percent. The owner or operator must notify the Administrator of the baseline average value and must notify the Administrator each time that the baseline value is changed as a result of the most recent performance test. The baseline average values used for compliance shall be based on the values determined during the most recent performance test. The new baseline average value shall be effective on the date following the performance test.

(2) The owner or operator of any new or existing affected source shall establish, and provide to the Administrator for approval, allowable ranges of baseline average values for the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with this subpart. Allowable ranges may be based upon baseline average values recorded during previous performance tests using the test methods required in this subpart and established in the manner required in § 63.626(c)(4) or (d)(4). As an alternative, the owner or operator can establish the allowable ranges of baseline average values using the results of performance tests conducted specifically for the purposes of this paragraph using the test methods required in this subpart and established in the manner required in § 63.626(c)(4) or (d)(4). The source shall certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. The allowable ranges of baseline average values developed pursuant to the provisions of this paragraph must be submitted to the Administrator for approval. The owner or operator must request and obtain approval of the Administrator for changes to the allowable ranges of baseline average values. When a source using the methodology of this paragraph is retested, the owner operator shall determine new allowable ranges of baseline average values unless the retest indicates no change in the operating parameters from previous tests. Any new allowable ranges of baseline average values resulting from the most recent performance test shall be effective on the date following the retest. Until changes to allowable ranges of baseline average values are approved by the

Administrator, the allowable ranges for use in § 63.624 shall be based upon the range of baseline average values proposed for approval.

[40 CFR 63.625(f)]

F.31. The permittee shall determine compliance with the total fluorides standard as required in 40 CFR 63.626(c), based on the equivalent P_2O_5 computed as indicated in 40 CFR 63.626(c)(3).

[40 CFR 63.626(c)]

F.32. The permittee must comply with the notification requirements in 40 CFR 63.9 and the reporting and recordkeeping requirements in 40 CFR 63.10. The reporting requirements in 40 CFR 63.10 includes the initial and annual performance test reports, excess emissions reports, and the summary report.

[40 CFR 63.627]

Subsection G. This section addresses the following emissions unit(s).

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-045	Molten Sulfur System -- Stack 45 from Pit A, 200 ton molten sulfur pit
-046	Molten Sulfur System -- Vent 44 from 6,000 ton tank
-047	Molten Sulfur System -- Vent 43, 43A, 43B, 43C and 43D from 3,000 ton tank
-050	Molten Sulfur System -- Stack 47 from Pit B, 300 ton molten sulfur pit

The molten sulfur storage and handling system consists of the following: a rail and truck unloading system, one 3,000 ton molten sulfur storage tank, one 6,000 ton molten sulfur storage tank, one 200 ton molten sulfur truck/railcar unloading pit (Pit A), one 300 ton railcar unloading pit (Pit B), and all of the associated transfer pumps and piping.

Molten sulfur from the (Pit A) 200 ton sulfur unloading pit is pumped directly to the No. 4, 5, and 6 sulfuric acid plants and to the No. 3 fertilizer plant at a combined rate of 2,630 tons per day. Sulfur in excess of that required to supply the sulfuric acid plants is pumped to either the 6,000 ton or the 3,000 ton molten sulfur storage surge tanks. The (Pit B) 300 ton railcar sulfur unloading pit is used to unload up to three 100 ton capacity railcars at a time, for a maximum unloading rate of 300 tons per hour. The (Pit A) 200 ton truck/railcar unloading pit has a maximum unloading rate, consisting of one 100-ton capacity railcar and eight 25-ton trucks, of 300 tons per hour. From the unloading pit, molten sulfur is transferred to either the 6,000 ton storage tank at a maximum rate of 108 tons per hour or the 3,000 ton storage tank at a maximum rate of 157 tons per hour. The molten sulfur storage pits are kept under forced draft ventilation at an airflow rate of approximately 2,700 acfm and exhausted to separate 40 foot tall stacks.

{Permitting note(s): This emissions unit is regulated under Rule 62-212.300, F.A.C., General Preconstruction Review Requirements; Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD); Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.411, F.A.C., Sulfur Storage and Handling Facilities.}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

G.1. Capacity. The molten sulfur feed rate to the sulfuric acid plant shall exceed neither 2,630 tons per day (TPD), nor 960,000 tons per year (TPY).

[Air Construction Permit AC53-271436/PSD-FL-229, Rule 62-4.160(2), F.A.C. and Rule 62-210.200, Definitions - (PTE), F.A.C.]

Emission Limitations and Standards

G.2. Visible emissions from any emission point in the molten sulfur system shall not exceed 20% opacity (six minute average).

[Rule 62.296.411(1)(g), F.A.C.]

G.3. For emission inventory and PSD purposes, the estimated maximum emissions from the sources in the molten sulfur storage and handling system are:

Pollutant	Total Emissions (TPY)	Maximum Emissions (lb/hr)
Sulfur particles emissions	5.35	1.28
TRS (as H ₂ S) emissions	6.56	1.56
SO ₂	13.68	3.26
VOC emissions	9.75	2.32

[Air Construction permit AC53-271436/PSD-FL-229]

7. 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 (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(1), F.A.C.]

8. 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(4), F.A.C.]

9. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection 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 62-210.700(6), F.A.C.]

Test Methods and Procedures

G.4. Each identified emission point, Stack 45 from (Pit A) 200 ton molten sulfur pit, Vent 44 from 6,000 ton tank, Vent 43, 43A, 43B, 43C and 43D from 3,000 ton tank, and Stack 47 from (Pit B) 300 ton molten sulfur pit, shall be tested for visible emissions on or during the 180 day period prior to the expiration date of this permit.

[Rule 62-297.310(7)(a)3, F.A.C.]

G.5. Compliance with the visible emission limitation of Condition G.2 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C.

[Rules 62-297.310(4)(a)2, and 62-296.411(1)(j)1., F.A.C.]

G.6. Testing of emissions must be conducted when the emission unit being tested is in operation and the test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

[Rule 62-297.310(4)(a)2, F.A.C.]

Operating Practices

G.7. All molten sulfur transfer shall be through enclosed piping systems where feasible and practical. In user facilities, molten sulfur may be transferred by covered trench or a movable spout which is positioned

over a receiving pit. Contact surfaces between stationary pipes shall seat effectively around the entire circumference to minimize spillage.

[Rule 62.296.411(1)(a), F.A.C.]

G.8. All areas surrounding points where molten sulfur pipes are routinely disconnected and areas where molten sulfur is transferred to trucks or railcars shall be paved and curbed within 20 feet of the point of disconnection or transfer to contain any spilled molten sulfur, or shall be provided with non-corrosive drip pans or other secondary containment, positioned to collect spills, that are adequate to contain amounts of sulfur that may escape during routine disconnection, re-connection or operation of the piping system.

[Rule 62-296.411(1)(b), F.A.C.]

G.9. All spilled molten sulfur shall be collected and properly disposed of whenever the containment area is filled to one-half its containment capacity, or monthly, whichever is more frequent. Spills of molten sulfur outside of a containment area, or where subject to vehicular traffic, shall be collected and disposed of as soon as possible, but no later than 24 hours after the spill occurs. Drip pans or other secondary containment shall be cleaned as needed to prevent exceedance of capacity, but at least weekly.

[Rule 62-296.411(1)(d), F.A.C.]

G.10. All vent surfaces shall be cleaned monthly to remove captured particles.

[Rule 62-296.411(1)(e), F.A.C.]

G.11. Any change in the method of operation or equipment which will cause an increase in the actual emissions may be considered a modification and must be reported to the Southwest District Office of the Department for proper processing prior to implementing the change.

[Rules 62-210.300 and 62-210.200(185), F.A.C.]

Recordkeeping and Reporting Requirements

G.12. The permittee shall maintain records of spills outside of containment areas and of collection and disposal of spilled sulfur.

[Rule 62-296.411(1)(f), F.A.C.]

G.13. In order to document compliance with the requirements of Condition G.1, the permittee shall maintain the following records at the facility and make them available to the Department upon request:

- a. Daily molten sulfur receiving rate (in TPD) (East and West sulfur pits).
- b. Monthly total sulfur receiving rate (tons per month) and cumulative total for the calendar year period (tons per year) (including sulfur loaded out to trucks).
- c. Sulfuric acid plant daily sulfur utilization rate (tons per day).
- d. Sulfuric acid plant monthly total sulfur utilization rate (tons per month) and cumulative total for the calendar year period (tons year).

[Rules 62-4.070(3) and 62-213.440(1)(b)2.b., F.A.C.]

Subsection H. This section addresses the following emissions unit(s).

E.U. ID

No.

Brief Description

-051 Package Watertube Boiler

The Package Watertube Boiler is used during cold start-up of the sulfuric acid plant(s) and for make-up steam during times the sulfuric acid plant(s) are operating below capacity and it is routinely fired for maintenance purposes. The maximum steam capacity of this boiler is 50,000 pounds per hour. This boiler is fired with natural gas as the primary fuel with new No. 5 fuel oil or better grade of fuel oil as the back-up fuel. The maximum heat input rate to this boiler is 64.0 MMBtu per hour. Fuel oil will be fired only during natural gas curtailment at a maximum of 400 hours per year.

{Permitting note(s): These emissions units are regulated under Rule 62-296.406, F.A.C., Fossil Fuel Steam Generators with less than 250 Million Btu per Hour Heat Input, New and Existing Emissions Units. These Emissions Units are subject to 40 CFR 63 Subpart DDDDD- Industrial, Commercial, and Institutional Boilers and Process Heaters.}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

H.1. Capacity.

- a. The maximum heat input to the Package Watertube Boiler shall not exceed 64.0 MMBtu per hour (daily average basis).
- b. The maximum fuel usage rate shall not exceed 443 gallons per hour (daily average basis) of new No. 5 fuel oil or a better grade oil⁽¹⁾.
- c. The maximum fuel usage rate shall not exceed 64,000 ft³ per hour of natural gas(daily average basis).

[Rule 62-4.160(2), F.A.C. and Rule 62-210.200, Definitions - (PTE), F.A.C., Air Construction Permit AC53-221062]

H.2. Methods of Operation - (i.e., Fuels).

- a. The Package Watertube Boiler shall be fired only with natural gas as the primary fuel with new No. 5 fuel oil or a better grade oil⁽¹⁾ as the back-up fuel.
- b. The fuel oil shall contain no more than 1.5% sulfur, by weight.
- c. Fuel oil shall be fired only during natural gas curtailment and only at a maximum of 400 hours per year.

New oil means an oil that has been refined from crude oil and has not been used and which may or may not contain additives. Waste/Recycled oil shall be not fired in this process steam boiler without prior approval from the Department.

[Rules 62-4.160(2), 62-213.440(1), and 62-296.406(2) and (3), F.A.C., Air Construction Permit AC53-221062]

⁽¹⁾Better Grade Fuel Oil

A better grade fuel oil is defined as a fuel with a higher ranking in the following list:

Better Grade (Top of List)

new, No. 2 fuel oil
new, No. 3 fuel oil
new, No. 4 fuel oil
new, No. 5 fuel oil
new, No. 6 fuel oil

Emission Limitations and Standards

H.3. Visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%.

[Rule 62-296.406(1), F.A.C.]

Test Methods and Procedures

H.4. The Package Watertube Boiler shall be tested for visible emissions annually.

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

H.5. Compliance with the visible emission (VE) limitation of Condition H.3 shall be determined using EPA Method 9 contained in Chapter 62-297, F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration. The visible emissions test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60 Appendix A.

[Rules 62-297, F.A.C. and 62-297.310(4)(a)2, F.A.C.]

H.6. Compliance with the sulfur content limitation of Condition H.2 shall be demonstrated during the visible emission compliance test by submitting either of the following with the visible emission test report:

a. A Certificate of Fuel Oil Analysis indicating the weight percent sulfur content and the heat content from the fuel oil supplier for the fuel oil used during the compliance test.

b. A Certificate of Fuel Oil Analysis for an as-burned fuel oil sample taken during the compliance test indicating the weight percent sulfur content and the heat content.

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

H.7. The visible emissions compliance test could be waived, on a year by year basis, if fuel oil has not been fired in this boiler for more than 400 hours for the previous 12 months and if it is not expected to be fired in this boiler for more than 400 hours during the next 12 months. Each year, when the VE test is due, a letter must be sent to Southwest District Office of the Department stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a visible emissions test shall be conducted during the six month period prior to the expiration date of this permit. The visible emissions test shall be conducted by a certified observer and be a minimum of thirty minutes in duration, unless otherwise specified within. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur.

[Rule 62-296.310, F.A.C.]

Recordkeeping and Reporting Requirements

H.8. The permittee shall submit a statement of the fuel in use, and the fuel heat input rate for each boiler, as a part of the compliance test report. Failure to submit the fuel in use, heat input rate, fuel oil sulfur content, or operating at conditions which do not reflect the normal operating conditions, may invalidate the test and fail to provide reasonable assurance of compliance.

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

H.9. In order to document compliance with the rate limitations of Condition H.1, the permittee shall maintain daily records of the type of fuel fired, the quantity of fuel fired, burned, and the total hours of operation for the boiler.

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

H.10. In order to document compliance with Condition H.2, daily records shall be maintained of the sulfur content, in % by weight, of the fuel oil fired in the boiler.

{Permitting Note: SO₂ analysis of each batch of fuel oil will suffice for this Condition.}

[Rules 62-4.070(3), and 62-213.440(1)(b)2.b., F.A.C.]

Subsection I. This section addresses the following emissions unit(s).

E.U. ID

No.

Brief Description

-052 Bartow Phosphogypsum Stack

Phosphogypsum stack.

{Permitting note(s): This emissions unit is regulated under Rule 40 CFR 61 Subpart A and R (National Emission Standards for Hazardous Air Pollutants -- General Provisions; and National Emission Standards for Radon Emissions from Phosphogypsum Stacks.).}

The following conditions apply to the emissions unit(s) listed above:

I.1. The permittee shall comply with 40 CFR 61 Subpart A and R (National Emission Standards for Hazardous Air Pollutants -- General Provisions; and National Emission Standards for Radon Emissions from Phosphogypsum Stacks).

I.2. The following specific conditions are a verbatim copy of 40 CFR 61 Subpart R-National Emission Standards for Radon Emissions From Phosphogypsum Stacks:

§61.200 Designation of facilities.

The provisions of this subpart apply to each owner or operator of a phosphogypsum stack, and to each person who owns, sells, distributes, or otherwise uses any quantity of phosphogypsum which is produced as a result of wet acid phosphorus production or is removed from any existing phosphogypsum stack.

§ 61.201 Definitions.

As used in this subpart, all terms not defined here have the meaning given them in the Clean Air Act or subpart A of part 61. The following terms shall have the following specific meanings:

(a) Inactive stack means a stack to which no further routine additions of phosphogypsum will be made and which is no longer used for water management associated with the production of phosphogypsum. If a stack has not been used for either purpose for two years, it is presumed to be inactive.

(b) Phosphogypsum is the solid waste byproduct which results from the process of wet acid phosphorus production.

(c) Phosphogypsum stacks or stacks are piles of waste resulting from wet acid phosphorus production, including phosphate mines or other sites that are used for the disposal of phosphogypsum.

§61.202 Standard.

Each person who generates phosphogypsum shall place all phosphogypsum in stacks. Phosphogypsum may be removed from a phosphogypsum stack only as expressly provided by this subpart. After a phosphogypsum-gypsum stack has become an inactive stack, the owner or operator shall assure that the stack does not emit more than 20 pCi/m²-s of radon-222 into the air.

§61.203 Radon monitoring and compliance procedures.

(a) Within sixty days following the date on which a stack becomes an inactive stack, or within ninety days after the date on which this subpart first took effect if a stack was already inactive on that date, each owner or operator of an inactive phosphogypsum stack shall test the stack for radon-222 flux in accordance with the procedures described in 40 CFR part 61, appendix B, Method 115. EPA shall be notified at least 30 days prior to each such emissions test so that EPA may, at its option, observe the test. If meteorological conditions are such that a test cannot be properly conducted, then the owner or operator shall notify EPA and test as soon as conditions permit.

(b) (1) Within ninety days after the testing is required, the owner or operator shall provide EPA with a report detailing the actions taken and the results of the radon-222 flux testing. Each report shall also include the following information:

- (i) The name and location of the facility;
- (ii) A list of the stacks at the facility including the size and dimensions of each stack;
- (iii) The name of the person responsible for the operation of the facility and the name of the person preparing the report (if different);
- (iv) A description of the control measures taken to decrease the radon flux from the source and any actions taken to insure the long term effectiveness of the control measures; and
- (v) The results of the testing conducted, including the results of each measurement.

(2) Each report shall be signed and dated by a corporate officer in charge of the facility and contain the following declaration immediately above the signature line: "I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See, 18 U.S.C. 1001."

(c) If the owner or operator of an inactive stack chooses to conduct measurements over a one year period as permitted by Method 115 in appendix B to part 61, within ninety days after the testing commences the owner or operator shall provide EPA with an initial report, including the results of the first measurement period and a schedule for all subsequent measurements. An additional report containing all the information in §61.203(b) shall be submitted within ninety days after completion of the final measurements.

(d) If at any point an owner or operator of a stack once again uses an inactive stack for the disposal of phosphogypsum or for water management, the stack ceases to be in inactive status and the owner or operator must notify EPA in writing within 45 days. When the owner or operator ceases to use the stack for disposal of phosphogypsum or water management, the stack will once again become inactive and the owner or operator must satisfy again all testing and reporting requirements for inactive stacks.

(e) If an owner or operator removes phosphogypsum from an inactive stack, the owner shall test the stack in accordance with the procedures described in 40 CFR part 61, appendix B, Method 115. The stack shall be tested within ninety days of the date that the owner or operator first removes phosphogypsum from the stack, and the test shall be repeated at least once during each calendar year that the owner or operator removes additional phosphogypsum from the stack. EPA shall be notified at least 30 days prior to an emissions test so that EPA may, at its option, observe the test. If meteorological conditions are such that a test cannot be properly conducted, then the owner shall notify EPA and test as soon as conditions permit. Within ninety days after completion of a test, the owner or operator shall provide EPA with a report detailing the actions taken and the results of the radon-222 flux testing. Each such report shall include all of the information specified by §61.203(b).

§61.204 Distribution and use of phosphogypsum for agricultural purposes.

Phosphogypsum may be lawfully removed from a stack and distributed in commerce for use in agriculture if each of the following requirements is satisfied:

(a) The owner or operator of the stack from which the phosphogypsum is removed shall determine annually the average radium-226 concentration at the location in the stack from which the phosphogypsum will be removed, as provided by 61.207.

(b) The average radium-226 concentration at the location in the stack from which the phosphogypsum will be removed, as determined pursuant to 61.207, shall not exceed 10 picocuries per gram (pCi/g).

(c) All phosphogypsum distributed in commerce for use in agriculture by the owner or operator of a phosphogypsum stack shall be accompanied by a certification document which conforms to the requirements of 61.208(a).

(d) Each distributor, retailer, or reseller who distributes phosphogypsum for use in agriculture shall prepare certification documents which conform to the requirements of §61.208(b).

§61.205 Distribution and use of phosphogypsum for research and development.

(a) Phosphogypsum may be lawfully removed from a stack and distributed in commerce for use in research and development activities if each of the following requirements is satisfied:

(1) The owner or operator of the stack from which the phosphogypsum is removed shall determine annually the average radium-226 concentration at the location in the stack from which the phosphogypsum will be removed, as provided by §61.207.

(2) All phosphogypsum distributed in commerce by the owner or operator of a phosphogypsum stack, or by a distributor, retailer, or reseller, or purchased by the end-user, shall be accompanied at all times by certification documents which conform to the requirements of §61.208.

(b) Phosphogypsum may be purchased and used for research and development purposes if the following requirements are satisfied:

(1) Each quantity of phosphogypsum purchased by a facility for a particular research and development activity shall be accompanied by certification documents which conform to the requirements of §61.208.

(2) No facility shall purchase or possess more than 700 pounds of phosphogypsum for a particular research and development activity.

(3) Containers of phosphogypsum used in research and development activities shall be labeled with the following warning:

Caution: Phosphogypsum Contains Elevated Levels of Naturally Occurring Radioactivity

(4) For each research and development activity in which phosphogypsum is used, the facility shall maintain records which conform to the requirements of 61.209(c).

(c) Phosphogypsum not intended for distribution in commerce may be lawfully removed from a stack by an owner or operator to perform laboratory analyses required by this subpart or any other quality control or quality assurance analyses associated with wet acid phosphorus production.

§61.206 Distribution and use of phosphogypsum for other purposes.

(a) Phosphogypsum may not be lawfully removed from a stack and distributed or used for any purpose not expressly specified in 61.204 or 61.205 without prior EPA approval.

(b) A request that EPA approve distribution and/or use of phosphogypsum for any other purpose must be submitted in writing and must contain the following information:

(1) The name and address of the person(s) making the request.

(2) A description of the proposed use, including any handling and processing that the phosphogypsum will undergo.

(3) The location of each facility, including suite and/or building number, street, city, county, state, and zip code, where any use, handling, or processing of the phosphogypsum will take place.

(4) The mailing address of each facility where any use, handling, or processing of the phosphogypsum will take place, if different from paragraph (b)(3) of this section.

(5) The quantity of phosphogypsum to be used by each facility.

(6) The average concentration of radium-226 in the phosphogypsum to be used.

(7) A description of any measures which will be taken to prevent the uncontrolled release of phosphogypsum into the environment.

(8) An estimate of the maximum individual risk, risk distribution, and incidence associated with the proposed use, including the ultimate disposition of the phosphogypsum or any product in which the phosphogypsum is incorporated.

(9) A description of the intended disposition of any unused phosphogypsum.

(10) Each request shall be signed and dated by a corporate officer or public official in charge of the facility.

(c) The Assistant Administrator for Air and Radiation may decide to grant a request that EPA approve distribution and/or use of phosphogypsum if he determines that the proposed distribution and/or use is at least as protective of public health, in both the short term and the long term, as disposal of phosphogypsum in a stack or a mine.

(d) If the Assistant Administrator for Air and Radiation decides to grant a request that EPA approve distribution and/or use of phosphogypsum for a specified purpose, each of the following requirements shall be satisfied:

(1) The owner or operator of the stack from which the phosphogypsum is removed shall determine annually the average radium-226 concentration at the location in the stack from which the phosphogypsum will be removed, as provided by 61.207.

(2) All phosphogypsum distributed in commerce by the owner or operator of a phosphogypsum stack, or by a distributor, retailer, or reseller, or purchased by the end-user, shall be accompanied at all times by certification documents which conform to the requirements 61.208.

(3) The end-user of the phosphogypsum shall maintain records which conform to the requirements of 61.209(c).

(e) If the Assistant Administrator for Air and Radiation decides to grant a request that EPA approve distribution and/or use of phosphogypsum for a specified purpose, the Assistant Administrator may decide to impose additional terms or conditions governing such distribution or use. In appropriate circumstances, the Assistant Administrator may also decide to waive or modify the recordkeeping requirements established by 61.209(c).

§61.207 Radium-226 sampling and measurement procedures.

(a) Before removing phosphogypsum from a stack for distribution to commerce pursuant to §61.204, §61.205, or §61.206, the owner or operator of a phosphogypsum stack shall measure the average radium-226 concentration at the location in the stack from which phosphogypsum will be removed. Measurements shall be performed for each such location prior to the initial distribution in commerce of phosphogypsum removed from that location and at least once during each calendar year while distribution of phosphogypsum removed from the location continues.

(b) The radium-226 concentration shall be determined in accordance with the analytical procedures described in 40 CFR part 61, appendix B, Method 114.

(c) Phosphogypsum samples shall be taken at regularly spaced intervals across the surface of the location in the phosphogypsum stack from which phosphogypsum will be removed.

(d) The minimum number of samples considered necessary to determine a representative average radium-226 concentration for the location on the stack to be analyzed shall be calculated as follows:

(1) Obtain the measured mean and standard deviation of 30 regularly spaced phosphogypsum samples.

(2) Solve the following equation for the number of samples required to achieve a 95% confidence interval:

$$e = \frac{\tau(n)s}{\sqrt{n}}$$

where:

τ is the students - τ distribution,
 s = measured standard deviation of the radium-226 concentration,
 \bar{x} = measured mean of the radium-226 concentration,
 e = allowable error (expressed as a fraction), and
 n = number of samples.

See Reference 1 of Method 115 in appendix B to part 61 for a detailed discussion of this statistical technique.

(3) If the number of samples required is greater than 30, then obtain and analyze the necessary number of additional samples and recalculate the average radium-226 concentration using the combination of the results of the original 30 samples and additional samples. The additional samples shall also be regularly spaced across the surface of the location in the phosphogypsum stack from which phosphogypsum will be removed.

§61.208 Certification requirements.

(a) (1) The owner or operator of a stack from which phosphogypsum will be removed and distributed in commerce pursuant to 61.204, 61.205, or 61.206 shall prepare a certification document for each quantity of phosphogypsum which is distributed in commerce which includes:

- (i) The name and address of the owner or operator;
- (ii) The name and address of the purchaser or recipient of the phosphogypsum;
- (iii) The quantity (in pounds) of phosphogypsum sold or transferred;
- (iv) The date of sale or transfer;
- (v) A description of the intended end-use for the phosphogypsum;
- (vi) The average radium-226 concentration, in pCi/g, of the phosphogypsum, as determined pursuant to §61.207; and
- (vii) The signature of the person who prepared the certification.

(2) The owner or operator shall retain the certification document for five years from the date of sale or transfer, and shall produce the document for inspection upon request by the Administrator, or his authorized representative. The owner or operator shall also provide a copy of the certification document to the purchaser or recipient.

(b) (1) Each distributor, retailer, or reseller who purchases or receives phosphogypsum for subsequent resale or transfer shall prepare a certification document for each quantity of phosphogypsum which is resold or transferred which includes:

- (i) The name and address of the distributor, retailer, or reseller;
- (ii) The name and address of the purchaser or recipient of the phosphogypsum;
- (iii) The quantity (in pounds) of phosphogypsum resold or transferred;
- (iv) The date of resale or transfer;
- (v) A description of the intended end-use for the phosphogypsum;
- (vi) A copy of each certification document which accompanied the phosphogypsum at the time it was purchased or received by the distributor, retailer, or reseller; and
- (vii) The signature of the person who prepared the certification.

(2) The distributor, retailer, or reseller shall retain the certification document for five years from the date of resale or transfer, and shall produce the document for inspection upon request by the Administrator, or his authorized representative. For every resale or transfer of phosphogypsum to a person other than an agricultural end-user, the distributor, retailer, or reseller shall also provide a copy of the certification document to the purchaser or transferee.

§61.209 Required records.

(a) Each owner or operator of a phosphogypsum stack must maintain records for each stack documenting the procedure used to verify compliance with the flux standard in 61.202, including all measurements, calculations, and analytical methods on which input parameters were based. The required documentation shall be sufficient to allow an independent auditor to verify the correctness of the determination made concerning compliance of the stack with flux standard.

(b) Each owner or operator of a phosphogypsum stack must maintain records documenting the procedure used to determine average radium-226 concentration pursuant to §61.207, including all measurements, calculations, and analytical methods on which input parameters were based. The required documentation shall be sufficient to allow an independent auditor to verify the accuracy of the radium-226 concentration.

(c) Each facility which uses phosphogypsum pursuant to §61.205 or §61.206 shall prepare records which include the following information:

(1) The name and address of the person in charge of the activity involving use of phosphogypsum.

(2) A description of each use of phosphogypsum, including the handling and processing that the phosphogypsum underwent.

(3) The location of each site where each use of phosphogypsum occurred, including the suite and/or building number, street, city, county, state, and zip code.

(4) The mailing address of each facility using phosphogypsum, if different from paragraph (c)(3) of this section.

(5) The date of each use of phosphogypsum.

(6) The quantity of phosphogypsum used.

(7) The certified average concentration of radium-226 for the phosphogypsum which was used.

(8) A description of all measures taken to prevent the uncontrolled release of phosphogypsum into the environment.

(9) A description of the disposition of any unused phosphogypsum.

(d) These records shall be retained by the facility for at least five years from the date of use of the phosphogypsum and shall be produced for inspection upon request by the Administrator, or his authorized representative.

§61.210 Exemption from the reporting and testing requirements of 40 CFR 61.10.

All facilities designated under this subpart are exempt from the reporting requirements of 40 CFR 61.10.

Section III. Emissions Unit(s) and Conditions (continued).

Subsection J. This section addresses the following emissions unit(s).

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-054	No. 3 Sulfuric Acid Plant

This emission unit is a double absorption sulfuric acid plant at a phosphate fertilizer facility. This plant is designed to produce a maximum of 1,700 tons per day of sulfuric acid (100% H₂SO₄ basis). Sulfur is burned in air first dried by passing through concentrated sulfuric acid in a drying tower. The resulting sulfur dioxide passes through converter units w/catalyst, through an intermediate absorption tower, through a final converter w/catalyst, and then through a final absorption tower (double absorption). Acid mist emissions from the final absorption tower are controlled by a Brink HV Demister. Waste heat from the process is also used to cogenerate electric power.

This emission unit is regulated under 40 CFR 60, Subpart H (standards of performance for sulfuric acid plants,) as adopted by reference in Rule 62-204.800(7), F.A.C.

This emission unit is subject to the following specific conditions:

Essential Potential to Emit (PTE) Parameters

J.1. Capacity. Sulfuric acid production, measured as 100% H₂SO₄, shall not exceed 1,700 tons per day .
[Construction Permit AC53-85261 and Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

J.2. Sulfur Dioxide. Sulfur dioxide emissions shall not exceed the lesser of:
A. 4 pounds per ton of 100% sulfuric acid produced; or
B. 283.3 pounds per hour.
[Rule 62-296.402(2), F.A.C., and 40 CFR 60.82(a)]

J.3. Acid Mist. Acid mist emissions shall not exceed the lesser of:
A. 0.15 pounds per ton of 100% H₂SO₄ produced; or
B. 10.6 pounds per hour.
[Rule 62-296.402(2), F.A.C. , and 40 CFR 60.83(a)(1)]

J.4. Visible Emissions . Visible emissions shall not be equal to or greater than 10% opacity.
[40 CFR 60.83(a)(2)]

J.5. 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 (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(1), F.A.C.]

J.6. 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(4), F.A.C.]

J.7. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection 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 62-210.700(6), F.A.C.]

Test Methods and Procedures

J.8. The following EPA/DEP test methods are approved for demonstration of compliance with the above emission limitations and standards:

- Method 1 Sample and velocity traverses for stationary sources;
- Method 2 Determination of stack gas velocity and volumetric flow rate (Type S pitot tube);
- Method 3 Gas analysis for carbon dioxide, oxygen, excess air, and dry molecular weight;
- Method 8 Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources; and
- Method 9 Visual determination of the opacity of emissions from stationary sources.

[40 CFR 60, Appendix A, incorporated by reference in Chapter 62-297, F.A.C., and Rule 62-296.402(3)(b), F.A.C.]

J.9. Test the emissions for the following pollutant(s) annually. Submit a copy of the test data to the Air Section of the Department's Southwest District Office within 45 days of such testing:

(X) Sulfur Dioxide (X) Sulfuric Acid Mist (X) Opacity

The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 62-297.310, F.A.C. and 40 CFR 60, Appendix A.
[Rules 62-297.310(7) and 62-297.310(8)(b), F.A.C.]

J.10. Compliance with the visible emission limitation shall be demonstrated using Method 9 as specified in Rule 62-297.402(3), F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration. The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. [Rule 62-297.310(4)(a)2., F.A.C.]

J.11. Excess emissions resulting from startup, shutdown or malfunction are permitted providing: (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions are minimized. 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. In case of excess emissions resulting from malfunctions, the permittee shall notify the Department. A full written report on the malfunction(s) shall be submitted in a quarterly report, if requested by the Department.
[Rules 62-4.070(3), 62-210.700(1), 62-210.700(4), 62-210.700(6), and 62-4.130, F.A.C.]

Continuous Monitoring Requirements

J.12. The continuous emission monitoring system for the measurement and recording of stack sulfur dioxide concentration shall:

- (a) Be calibrated, maintained and operated as specified in 40 CFR 60.84, with the exception that monitor span value shall be set at 1,000 ppm* sulfur dioxide;
- (b) Perform zero and span calibration at least daily as required by 40 CFR 60.13;
- (c) As specified in 40 CFR 60.13(e), be in continuous recording operation (regardless of plant downtime); and,
- (d) Demonstrate compliance with 40 CFR 60, Appendix B, Performance Specification 2, upon replacement or modification of the monitor, or at the request of the Department pursuant to 40 CFR 60.13(c).

* Letter of June 19, 1986

Training Requirements

J.13. Plant personnel and operators shall be familiar with best operational practices in order to (1) minimize emissions during plant shutdown and cold and hot plant startup; and, (2) to minimize the duration of excess emissions.
[Rule 62-4.070, F.A.C.]

Recordkeeping and Reporting Requirements

J.14. Data acquisition, data reduction, records and reporting requirements for the sulfur dioxide continuous emission monitor shall conform with 40 CFR 51, Appendix P, as adopted by reference in Rule 62-204.800(2), F.A.C.

J.15. The permittee shall submit a written report of excess sulfur dioxide emissions for every calendar quarter in accordance with 40 CFR 60.7(c). Periods of excess emissions shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standard under 40 CFR 60.82. Two copies of the quarterly sulfur dioxide excess emission report shall be submitted to the Department's Southwest District Office in Tampa.
[Rule 62-296.402(4), F.A.C. and 40 CFR 60.84(e).]

J.16. This permit acknowledges that leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions that do not pass through a stack, may occur as part of routine operations. Best operational practices to minimize these emissions shall be adhered to and shall include regular inspections and the prompt repair or correction of any leaks or other fugitive emissions. [Rule 62-213.440(1)(b), F.A.C.]

Operational Procedures

J.17. Not federally enforceable. The permittee shall follow the *MEMORANDUM OF UNDERSTANDING REGARDING BEST OPERATIONAL START-UP PRACTICES FOR SULFURIC ACID PLANTS*.
[Signed and Executed on October 25, 1989, Amended September 18, 2003, Rules 62-4.070(3) and 62-210.700(1), F.A.C.]

Not federally enforceable.

MEMORANDUM OF UNDERSTANDING
REGARDING BEST OPERATIONAL START-UP PRACTICES
FOR SULFURIC ACID PLANTS

These Sulfuric Acid Plant Best Operation Start-Up Practices will be made available in the control room at all times.

1. Only one sulfuric acid plant at a facility should be started up and burning sulfur at a time. There are times when it will be acceptable for more than one sulfuric acid plant to be in the start-up mode at the same time, provided the following condition is met. It is not acceptable to initiate sulfur burning at one sulfuric acid plant when another plant at the same facility is emitting SO_2 at a rate in excess of the emission limits imposed by the permit or rule, as determined by the CEMs emission rates for the immediately preceding 20 minutes. Due to the distance (approximately 2.5 miles) between plants, the #3 Sulfuric Acid Plant (SAP) may be started up and initiate sulfur burning regardless of the start up status of the No. 4, 5, or 6 Sulfuric Acid Plants.

2. A plant start-up must be at the lowest practicable operating rate, not to exceed 70 percent of the designated operating rate, until the SO_2 monitor indicates compliance. Because production rate is difficult to measure during start-up, if a more appropriate indicator (such as blower pressure, furnace temperature, gas strength, blower speed, number of sulfur guns operating, etc.) can be documented, tested and validated, the Department will accept this in lieu of directly documenting the operating rate. Implementation requires the development of a suitable list of surrogate parameters to demonstrate and document the reduced operating rate on a plant-by-plant basis. Documentation that the plant is conducting start-up at the reduced rate is the responsibility of the owner or operator.

3. Sulfuric acid plants are authorized to emit excess emissions from start-up for a period of three consecutive hours provided best operational practices, in accordance with this agreement, to minimize emissions are followed. No plant shall be operated (with sulfur as fuel) out of compliance for more than three consecutive hours. Thereafter, the plant shall be shut down. The plant shall be shut down (cease burning sulfur) if, as indicated by the continuous emission monitoring system, the plant is not in compliance within three hours of start-up. Restart may occur as soon as practicable following any needed repairs or adjustments, provided the corrective action is taken and properly documented.

4. Cold Start-Up Procedures.

a. Converter.

(1) The inlet and outlet temperature at the first two masses of catalyst shall be sufficiently high to provide immediate ignition when SO_2 enters the masses. In no event shall the inlet temperature to the first mass be less than 800°F or the outlet temperature to the first two masses be less than 700°F . These temperatures are the desired temperatures at the time the use of auxiliary fuel is terminated.

(2) The gas stream entering the converter shall contain SO_2 at a level less than normal, and sufficiently low to promote catalytic conversion to SO_3 .

b. Absorbing Towers.

The concentration, temperature and flow of circulating acid shall be as near to normal conditions as reasonably can be achieved. In no event shall the concentration be less than 96 percent H_2SO_4 .

5. Warm Restart.

a. Converter.

The inlet and outlet temperatures of the first two catalyst masses should be sufficiently high to ensure conversion. one of the following three conditions must be met:

- (1) The first two catalyst masses inlet and outlet temperatures must be at a minimum of 700°F; or
- (2) Two of the four inlet and outlet temperatures must be greater than or equal to 800°F; or
- (3) The inlet temperature of the first catalyst must be greater than or equal to 600°F and the outlet temperature greater than or equal to 800°F. Also, the inlet and outlet temperatures of the second catalyst must be greater than or equal to 700°F.

Failure to meet one of the above conditions, requires use of cold start-up procedures.

To allow for technological improvements or individual plant conditions, alternative conditions will be considered by the Department in appropriate cases.

b. Absorbing Towers.

The concentration, temperature and flow of circulating acid shall be as near to normal conditions as reasonably can be achieved, In no event shall the concentration be less than 96 percent H_2SO_4 .

6. Prevention of Ammonium Sulfate Cloud Formation at the No. 3 Sulfuric Acid Plant

- a. Water treatment sprays will be shut down prior to plant start ups, and will remain down until startup is completed and the plant is operating normally.
- b. If a plant upset condition occurs, the water treatment sprays will be shut down during the entire duration of the upset condition.
- c. Operations logs at the sulfuric acid control room and the lime plant will include notation for the date and time of notification (and operator's initials or signature) of startup or upset conditions that would prompt water treatment spray shutdown.

Due to the distance between plants, No. 3 Sulfuric Acid Plant may be started up and initiate sulfur burning independent of start up status of No. 4, 5, and 6 Sulfuric Acid Plants.

Section III. Emissions Unit(s) and Conditions (Continued).

Subsection K. This section addresses the following emissions unit(s).

E.U. ID

No.

Brief Description

-055 Auxiliary Process Steam Boiler

For the operation of a Nebraska Model NS-E-65 Process Steam Boiler. This boiler shall be fired with natural gas as the primary fuel with new No. 2 fuel oil as backup during natural gas curtailment. The sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. The maximum fuel consumption rate while firing natural gas is 93,200 cubic feet/hour and while firing new No. 2 fuel oil is 625.0 gallons/hour. This boiler is equipped with a stack economizer.

This Emissions Unit is subject to the requirements of 40 CFR 60, Subpart Dc (NSPS). In order to avoid some requirements of NSPS, the Boiler shall operate in accordance with requirements of the BACT (Best Available Control Technology) determination for particulate matter and sulfur dioxide dated November 3, 1993, and construction permit AC53-234449. [Rule 62-296.406(2) & (3), F.A.C.]

This emission unit is subject to the following specific conditions:

Essential Potential to Emit (PTE) Parameters

K.1. Capacity. The Auxiliary Boiler produces 75,000 pound/hour of steam from a maximum heat input of 93.2 MMBtu/hour natural gas or 89.8 MMBtu/hour #2 fuel oil.
[Permit AO53-249982 and Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

K.2. Methods of Operation. The following operation limitations have been established for this process steam boiler:

- A. The process steam boiler shall be fired on natural gas as primary fuel with new* No. 2 fuel oil as backup fuel, during natural gas curtailment.
- B. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight.
- C. The maximum heat input rate, fuel usage rate and hours of operation for this process steam boiler is as follows:
 - 1. 93.2 MMBTU/hour, Natural gas
89.8 MMBTU/hour, new No. 2 fuel oil
 - 2. 93,200 cubic feet/hour, natural gas
625.0 gallons/hour new No. 2 fuel oil
 - 3. 8,760 hours/year, natural gas
400.0 hours/year, new No. 2 fuel oil

* The term "new" oil means an oil that has been refined from crude oil and has not been used and which may or may not contain additives.

[Rules 62-296.406(2) and (3), and permit AC53-234449]

Emission Limitations and Standards

K.3. Sulfur Dioxide. In accordance with 40 CFR 60.42c(d) and Rule 62-204.800, F.A.C., no owner or operator of an affected boiler that combusts oil shall cause to be discharged into the atmosphere from that affected boiler any gases that contain SO₂ in excess of 0.50 pound/MMBTU heat input; or, as an alternative, no owner or operator of an affected boiler that combusts oil shall combust oil in the affected boiler that contains greater than 0.5% sulfur by weight.

K.4. Visible Emissions. Visible emissions shall not exceed 20% opacity except for one six-minute period per hour during which opacity shall not exceed 27%. [Rule 62-296.406(1), F.A.C.]

K.5. 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 (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(1), F.A.C.]

K.6. 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(4), F.A.C.]

K.7. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection 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 62-210.700(6), F.A.C.]

Test Methods and Procedures

K.8. The process steam boiler shall be tested annually for visible emissions. A copy of the compliance test data shall be submitted to the Air Section of the Department's Southwest District Office within 45 days of such testing. The following EPA test methods are approved for demonstration of compliance with the above emission limitations and standards:

Method 9. Visual determination of the opacity of emissions from stationary sources;

Method 6B. Determination of sulfur dioxide and carbon dioxide daily average emissions from fossil fuel combustion sources.;

ASTM D 129-91. Standard Test Method for Sulfur in Petroleum Products (General Bomb Method).;

ASTM D 2622-94. Standard Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry.; and

ASTM D 4294-90. Standard Test Method for Sulfur in Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectroscopy.

[Rule 62-297.440, F.A.C.]

K.9. The visible emissions compliance test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emissions (VE) compliance test could be waived, on a year by year basis, if liquid and/or solid fuel has not been used in this boiler for more than 400 hours for the previous 12 months and if it is not expected to be used in this boiler for more than 400 hours during the next 12 months. Each year, when the VE test is due, a letter must be sent to this office stating that the

above criteria for the waiver have been satisfied. [Rules 62-297.310(7)(a)5., and 62-297.310(4)(a)2., F.A.C.]

Monitoring, Recordkeeping, and Reporting Requirements

K.10. In accordance with 40 CFR 60.48c(e), the owner or operator of each affected boiler subject to the SO₂ emission limits or fuel oil sulfur limits requirements of 40 CFR 60.42c shall keep records and submit quarterly reports as required under 40 CFR 60.48c(d) including the applicable information under 40 CFR 60.48c(e)(f)(g)(h) & (i).

K.11. In order to document continuing compliance with Condition No. K.2., records of the sulfur content, in % by weight of fuel oil used, shall be maintained based on either vendor provided as-shipped analysis for each shipment received during the use of oil in the boiler, or on analysis of as-received samples taken at the plant during oil usage.

Section III. Emissions Unit(s) and Conditions (Continued).

Subsection L. This section addresses the following emissions unit(s).

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-056	Molten Sulfur Storage/Handling--Truck Delivery Pit
-057	Molten Sulfur Storage/Handling--Storage Tank, North Vent
-058	Molten Sulfur Storage/Handling--Storage Tank, Southeast Vent
-059	Molten Sulfur Storage/Handling--Storage Tank, Southwest Vent
-060	Molten Sulfur Storage/Handling--Storage Tank, Middle Vent

Molten sulfur is delivered by tank truck and unloaded by gravity into the truck pit. Pumps in the pit forward the liquid to storage tanks. Emissions of particulates are controlled by pit covers. The four storage tank vents are uncontrolled.

This emission unit is subject to Rule 62-296.411, F.A.C., Sulfur Storage and Handling Facilities:

Essential Potential to Emit (PTE) Parameters

L.1. Capacity. The maximum sulfur throughput rate shall not exceed 555 tons/day or 203,000 tons/year. [AO53-173754, J. Koogler letter dated 9/25/98, and Rules 62-4.160(2) and 62-210.200, F.A.C.]

L.2. Methods of Operation. All molten sulfur facilities shall employ, as a minimum, the following practices to minimize the emission of sulfur particulate matter into the atmosphere:

A. All molten sulfur transfer shall be through enclosed piping systems where feasible and practical. In user facilities, molten sulfur may be transferred by covered trench or a movable spout which is positioned over a receiving pit. Contact surfaces between movable unloading arms and stationary pipes shall seat effectively around the entire circumference to minimize spillage.

B. All areas surrounding points where molten sulfur pipes are routinely disconnected and areas where molten sulfur is transferred to trucks or railcars shall be paved and curbed within 20 feet of the point of disconnection or transfer to contain any spilled molten sulfur, or shall be provided with noncorrosible drip pans or other secondary containment, positioned to collect spills, that are adequate to contain amounts of sulfur that may escape during routine disconnection, reconnection or operation of the piping system.

C. Emissions of sulfur particulate matter from molten sulfur storage tanks and transfer systems in particulate matter air quality maintenance areas or within five kilometers of such areas shall not exceed 0.03 pounds per hour per thousand tons of storage capacity.

D. All spilled molten sulfur shall be collected and properly disposed of whenever the containment area is filled to one-half its containment capacity, or monthly, whichever is more frequent. Spills of molten sulfur outside of a containment area, or where subject to vehicular traffic, shall be collected and disposed of as soon as possible, but no later than 24 hours after the spill occurs. Drip pans or other secondary containment shall be cleaned as needed to prevent exceedance of capacity, but at least weekly.

E. All vent surfaces shall be cleaned monthly to remove captured particles.
[Rule 62-296.411, F.A.C.]

Emission Limitations and Standards

L.3. Visible emissions shall not be equal to or greater than 20% opacity, in accordance with Rule 62-296.411(1)(g), F.A.C.

{Permitting Note: The total emissions of sulfur particulate from the two pits are estimated to be 148 lbs/yr. The emissions of other pollutants from the pits are negligible. The Permittee stated that no hydrocarbon emissions are expected from the facility because the sulfur received at the facility is bright sulfur. The basis used for calculating emissions is the maximum permitted sulfur throughput rate.}

Test Methods and Procedures

L.4. The following EPA test methods are approved for demonstration of compliance with the above emission limitations and standards:

(X) Opacity

Method 9 Visual determination of the opacity of emissions from stationary sources
[40 CFR 60, Appendix A, incorporated by reference in Rule 62-297, F.A.C.]

L.5. The visible emissions test of each delivery pit and tank vent shall be conducted prior to application to renew this permit by a certified observer and be a minimum of thirty (30) minutes in duration. The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. [Rule 62-297.310(4)(a)2., F.A.C.]

Recordkeeping and Reporting Requirements

L.6. In order to demonstrate compliance with Condition No. L.1., the Permittee shall maintain records of sulfur throughput for the most recent 12 consecutive-month period.
[Rule 62-213.440(1)(b), F.A.C.]

L.7. The permittee shall maintain records of spills outside of containment areas and of collection and disposal of spilled sulfur. Such records shall be retained for a minimum of five (5) years and shall be available for inspection by the Department upon request.
[Rule 62-296.411, F.A.C.]

Appendix U-1, List of Unregulated Emissions Units and/or Activities.

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No.: 1050046-018-AV
Facility ID No.: 1050046

Unregulated Emissions Units and/or Activities. An emissions unit which emits no “emissions-limited pollutant” and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither ‘regulated emissions units’ nor ‘insignificant emissions units’.

E.U. ID

<u>No.</u>	<u>Brief Description of Emissions Units and/or Activity</u>
<u>Fertilizer Plants</u>	
-053	Screens, lump crushers, chain mills, grinding mills, conveyor belts
-053	Reclaim Elevator, seed hopper and elevator
-053	Pond water sumps
-053	Ammonia chillers
-053	Product Recovery Units
-053	Phosphoric acid truck unloading
-053	Process storage tanks and product storage buildings/area
-053	Cooling towers and process water pond
<u>Shipping Plants</u>	
-053	Covered conveyor, surge bin, product screens, scale belt, chute to rail car
<u>Molten Sulfur Handling</u>	
-053	Truck/rail unloading area
-053	Molten sulfur storage tank fires
<u>Sulfuric Acid Plants</u>	
-053	Hot water reuse tank
-053	Economizers
-053	Water reuse, uncontaminated water storage, condensate tanks for Evaporators
-053	Auxiliary power diesel generators
-053	Auxiliary power generator diesel tank
-053	Storage tanks
-053	Sulfuric acid truck loading
<u>Phosphoric Acid Plants</u>	
-053	Fluosilicic acid truck loading
-053	Wet rock hoppers and grinding mills
-053	Flash cooler hotwells
-053	Process and product storage tanks
-053	3, 4, 5 Filters (unevacuated area)
-053	Unpermitted crossflow packed scrubbers
-053	Flash coolers, vacuum pumps, seal pumps, seal tanks
-053	Lamellas
-053	Phosphoric acid truck unloading/loading -- North Unit and South Units
<u>Wet Rock Handling</u>	

E.U. ID

<u>No.</u>	<u>Brief Description of Emissions Units and/or Activity</u>
-053	Train/truck unloading, hoppers, conveyors, wet rock stacking on pile
	<u>Ammonia Handling</u>
-053	Pipeline, truck unloading, bullets, pop off valves, and flare
	<u>Facilitywide</u>
-053	Safety kleen solvent cleaners
-053	Supersucker
-053	Sand blasters, welding equipment, compressors, wood shop, metal shop
-053	Refrigerators < 50 lbs of refrigerant
-053	Storage tanks and dispensers
-053	Wastewater plants (2), drinking water treatment area
-053	Laboratory and vents, pressure relief valves
-053	Lime silo with baghouse
-053	Turbogenerators (TG1 + TG2)
-053	Laboratory vacuum pump, space heaters
-053	#1 Deepwell diesel tank and backup engine
-053	Locomotive engines
-053	South stack diesel tank
-053	Minor fugitive leaks from process equipment
-053	Steam relief valves—plantwide
-061	Waste Heat Boiler/Flash Tank Discharge
-062	Tank Truck Loading/Unloading of Sulfuric Acid
-063	Industrial Cooling Towers
-064	Process and Product Storage Tanks
-065	Auxiliary Power Generators and Diesel Fuel Tanks
-066	Molten Sulfur Fire and Spill Cleanup
-067	VOC From Solvent Cleaning of Small Parts
-068	Welding, Grinding, and Cutting Metal from Maintenance Vehicles
-069	Fugitive Dust/Exhaust Emissions From Maintenance Vehicles
-070	Miscellaneous Painting and Relining Rubber-Lined Vessels
-071	Vehicle Fleet Fuel Storage Tanks
-072	Sulfuric Acid Plant Catalyst Removal and Classifying

Table 1-1, Summary of Air Pollutant Standards and Terms

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-001 Ammonium Phosphate Fertilizer Plant
-002 No. 4 Fertilizer Shipping Plant
-004 No. 3 Fertilizer Shipping Plant
-010 Phosphoric Acid Plant (No. 4 -- V-Train, No. 5 -- U-Train)

				Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
E.U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-001	F (Fluoride)		8,760	0.06 lbs/ton of P ₂ O ₅ , 1.8 lb/hr	1.8		1.8	7.9	62-296.403(1), F.A.C./EBA/ 40 CFR 63.622(a)	III. A.3.
	PM		8,760	30.0 lbs/hr, RACT	30.0		30.0	131.4	62-296.700(2)(b), F.A.C./EBA	III. A.4.
	VE	gas/oil	N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	III. A.5.
	SO ₂	Fuel oil	8,760	2.4% Sulfur by weight			76.9	336.8	62-213.440(1), F.A.C./EBA	III. A.2.
-002	PM		6,000	0.03 grains/dscf			10.54	31.6	AC53-239194	III. B.3.
	VE		N/A	20% opacity (scrubber dust control system)	N/A	N/A	N/A	N/A	BACT Determination 01/02/81. 62-296.320(4)(b), F.A.C.	III. B.4.
	VE		N/A	5% opacity (dust suppressant)	N/A	N/A	N/A	N/A	BACT Determination 01/02/81. AC53-239194/EBA	III. B.5.
-004	PM		6,000	12.0 lbs/hr, 12 tons/yr	12.0	12.0	12.0	12.0	62-296.700(2)(b), F.A.C./EBA	III. C.3.
	VE		N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	III. C.4.
	VE		N/A	5% opacity (dust suppressant)	N/A	N/A	N/A	N/A	62-4.070(3), F.A.C./EBA	III. C.5.
-010	F (Fluoride)		8,760	2.04 lbs/hr, 0.012 lb/ton equiv. of P ₂ O ₅	2.04	N/A	2.29	8.93	1050046-013-AC/PSD-FL-295	III. D.2.
	*Prior to the date that the initial performance test is completed per 40 CFR 63. Subpart AA.			0.01 lbs/ton**			1.7	7.4	40 CFR 63.602(b)(1)	III.D.2.
**On and after the date that the initial performance test is completed per 40 CFR 63, Subpart AA.										

Notes: *The "Equivalent Emissions" listed are for informational purposes only.
N/A: Not Applicable EBA: Established by Applicant

Table 1-1, Summary of Air Pollutant Standards and TermsMosaic Fertilizer, LLC
Bartow FacilityDRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-012 No. 4 Sulfuric Acid Plant

E.U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-012	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-204.800(7)(b)10,F.A.C., 40 CFR 60.83(a)(2)	III.E.2.
	SO ₂		8,760	Lesser of 4.0 lbs/ton of 100% acid produced or 433.3 lbs/hr, or 1898 TPY	433.3	1898	433.3	1898	62-204.800(7)(b)10,F.A.C., AC53-271436/PSD-FL-229, 40 CFR 60.82(a)	III. E.3.
	H ₂ SO ₄ Acid Mist		8,760	Lesser of 0.15 lbs/ton of 100% acid produced or 16.25 lbs/hr, or 71.2 TPY	16.25	71.2	16.25	71.2	62-204.800(7)(b)10,F.A.C., AC53-271436/PSD-FL-229, 40 CFR 60.83(a)(1)	III. E.4.
	NO _x		8,760	Lesser of 0.12 lbs/ton of 100% acid produced or 13.0 lbs/hr, or 57.0 TPY	13.0	57.0	13.0	57.0	AC53-271436/PSD-FL-229	III. E.5.

Notes: *The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable

EBA: Established By Applicant

Table 1-1, Summary of Air Pollutant Standards and TermsMosaic Fertilizer, LLC
Bartow FacilityDRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-032 No. 6 Sulfuric Acid Plant

E.U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-032	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-204.800(7)(b)10,F.A.C., 40 CFR 60.83(a)(2)	III.E.2.
	SO ₂		8,760	Lesser of 4.0 lbs/ton of 100% acid produced or 433.3 lbs/hr, or 1898 TPY	433.3	1898	433.3	1898	62-204.800(7)(b)10,F.A.C., AC53-271436/PSD-FL-229, 40 CFR 60.82(a)	III. E.3.
	H ₂ SO ₄ Acid Mist		8,760	Lesser of 0.15 lbs/ton of 100% acid produced or 16.25 lbs/hr, or 71.2 TPY	16.25	71.2	16.25	71.2	62-204.800(7)(b)10,F.A.C., AC53-271436/PSD-FL-229, 40 CFR 60.83(a)(1)	III. E.4.
	NO _x		8,760	Lesser of 0.12 lbs/ton of 100% acid produced or 13.0 lbs/hr, or 57.0 TPY	13.0	57.0	13.0	57.0	AC53-271436/PSD-FL-229	III. E.5.

Notes: *The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable

EBA: Established By Applicant

Table 1-1, Summary of Air Pollutant Standards and TermsMosaic Fertilizer, LLC
Bartow FacilityDRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-033 No. 5 Sulfuric Acid Plant

E.U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-033	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-204.800(7)(b)10,F.A.C., 40 CFR 60.83(a)(2)	III.E.2.
	SO ₂		8,760	Lesser of 4.0 lbs/ton of 100% acid produced or 433.3 lbs/hr, or 1898 TPY	433.3	1898	433.3	1898	62-204.800(7)(b)10,F.A.C., AC53-271436/PSD-FL-229, 40 CFR 60.82(a)	III. E.3.
	H ₂ SO ₄ Acid Mist		8,760	Lesser of 0.15 lbs/ton of 100% acid produced or 16.25 lbs/hr, or 71.2 TPY	16.25	71.2	16.25	71.2	62-204.800(7)(b)10,F.A.C., AC53-271436/PSD-FL-229, 40 CFR 60.83(a)(1)	III. E.4.
	NO _x		8,760	Lesser of 0.12 lbs/ton of 100% acid produced or 13.0 lbs/hr, or 57.0 TPY	13.0	57.0	13.0	57.0	AC53-271436/PSD-FL-229	III. E.5.

Notes: *The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable

EBA: Established By Applicant

Table 1-1, Summary of Air Pollutant Standards and TermsMosaic Fertilizer, LLC
Bartow FacilityDRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

- 021 Diammonium Phosphate Fertilizer Plant
- 045 Molten Sulfur System -- Stack 45 from West 200 molten sulfur pit
- 046 Molten Sulfur System -- Vent 44 and 44A from 1,000 ton tank
- 047 Molten Sulfur System -- Vent 43, 43A, 43B, 43C and 43D from 3,000 ton tank
- 050 Molten Sulfur System -- Stack 47 from East 300 ton molten sulfur pit

E.U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-021	F (Fluoride)		8,500	0.06 lbs/ton of P ₂ O ₅ , 5.50 lb/hr 23.40 TPY	5.50	23.40	5.50	23.40	AC53-246403/PSD-FL-211 40 CFR 60.222 40 CFR 63.622(a)	III. F.4.
	PM		8,500	0.19 lbs/ton of P ₂ O ₅ , 22.8 lbs/hr 96.9 TPY	22.8	96.9	22.8	96.9	AC53-246403/PSD-FL-211 BACT Determination 11/21/94	III. F.5.
	VE	gas/oil	N/A	10% opacity	N/A	N/A	N/A	N/A	AC53-246403/PSD-FL-211	III. F.6.
	SO ₂	No. 2 fuel oil	8,500	2.4% Sulfur by weight			102.5	37.8	62-213.440(1), F.A.C. AC53-246403/PSD-FL-211	III. F.3.
-045, 046 047, 050	VE		N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.411(1)(g), F.A.C.	III. G.2.

Notes: *The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable

EBA: Established by Applicant

Table 1-1, Summary of Air Pollutant Standards and TermsMosaic Fertilizer, LLC
Bartow FacilityDRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-051 Cleaver Brooks Package Watertube Boiler
 -054 Double Contact Sulfuric Acid Plant
 -055 Steam Generator
 -056 to -060 Molten Sulfur Storage/Handling

E.U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-051	VE	No. 2 Fuel Oil	N/A	20% opacity except 40% for 2 min/hr	N/A	N/A	N/A	N/A	62-296.406(1), F.A.C.	III. H.3.
	SO ₂	Oil	8,760	1.5% Sulfur by weight			165.2	33.2	62-296.406(3), F.A.C. AC53-221062	III. H.2.
-054	SO ₂	Sulfur	8760	4 lb/ton 100%Acid	283.3	1240.8			62.296.402(2), FAC 62.296.402(2), FAC 62.296.402(2), FAC	III.J. III.J. III.J.
-055	Opacity	Natural Gas	8760	20% for 6 minute Avg.					62-296.406(1), F.A.C.	III.K.
		#2 Oil	8760	27% for Hour					62-296.406(1), F.A.C.	III.K.
-056 through -060	V.E.	n/a	8760	20%					62-296.411(1)(g)	III.L.

Notes: *The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable

EBA: Established by Applicant

Table 2-1, Summary of Compliance Requirements

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-001 Ammonium Phosphate Fertilizer Plant

-002 No. 4 Fertilizer Shipping Plant

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-001	PM F (Fluoride)***		5 13A or 13B	annual annual	11-November 11-November	1 hour 1 hour		III. A.7. & A.8. III. A.7. & A.8.
*** Note that for Fluorides only, starting no later than the compliance date of 40 CFR 63, Subpart BB, June 10, 2002, the permittee shall test annually to demonstrate compliance with the applicable emissions standards according to the procedures in 40 CFR 63, Subparts A and BB.								
	VE SO ₂ Mass flow**** Pressure drop**** Water flow rate****	Gas/Oil No. 2 Fuel Oil	9 fuel analysis, and sampling	annual annual	11-November 11-November	30 minutes	Yes	III. A.7. & A.8. III. A.10. III. A.11. III. A.12. & A.14. III. A.12.
****Note that applicable requirements of 40 CFR Subparts A and BB supercede on or after the date that the initial performance test is completed.								
-002	PM (waivable; see permit conditions B.6 & B.7) VE (no dust supp.) VE (dust supp.) Pressure drop Water flow rate Scrubber fan amps		5 9 9	annual/ five years annual	30-June/ 180 days prior to exp. date 30-June 30 days of changing dust suppressant	1 hour 30 minutes 30 minutes		III. B.6. & B.7. III. B.6. & B.7. III. B.7. & B.8. III. B.10. III. B.10.
Notes: *Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C. **CMS [=] continuous monitoring system								

Table 2-1, Summary of Compliance RequirementsMosaic Fertilizer, LLC
Bartow FacilityDRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description
 -004 No. 3 Fertilizer Shipping Plant
 -010 Phosphoric Acid Plant (No. 4 -- V-Train, No. 5 -- U-Train)

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-004	PM (waivable; see permit conditions B.6 & B.7) VE VE (dust supp.) Pressure drop Water flow rate Scrubber fan amps		5 9	annual/ five years annual	6-August/ 180 days prior to exp. date 6-August within 30 days of changing dust suppressant	1 hour 30 minutes 30 minutes		III. C.6. & C.7. III. C.6. & C.7. III. C.7. & C.8. III. C.10. III. C.10. III. C.10.
-010	F (Fluoride)*** Pressure drop**** Water flow rate**** Mass flow****		I3A or I3B	annual	25-September	1 hour		III. D.3. & D.4. III. D.6. & D.8. III. D.6. III. D.7. & D.9.
*** Note that for Fluorides only, starting no later than the compliance date of 40 CFR 63, Subpart AA, June 10, 2002, the permittee shall test annually to demonstrate compliance with the applicable emissions standards according to the procedures in 40 CFR 63, Subparts A and AA.								
****Note that applicable requirements of 40 CFR Subparts A and AA supercede on or after the date that the initial performance test is completed.								
Notes: *Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C. **CMS [=] continuous monitoring system								

Table 2-1, Summary of Compliance Requirements

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-012 No. 4 Sulfuric Acid Plant
-032 No. 6 Sulfuric Acid Plant
-033 No. 5 Sulfuric Acid Plant
-021 Diammonium Phosphate Fertilizer Plant

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-012, 032, 033	VE SO ₂ H ₂ SO ₄ acid mist NO _x		9 8 8 7E	annual annual annual annual	28-August 28-August 28-August 28-August	1 hour 1 hour 1 hour 1 hour	Yes	III. E.6. & E.8. III. E.6, E.8, & E.11. III. E.6. & E.8. III. E.7. & E.8.
-021	F (Fluoride)***		13A or 13B	annual	5-August	1 hour		III. F.8. & F.9.
*** Note that for Fluorides only, starting no later than the compliance date of 40 CFR 63, Subpart BB, June 10, 2002, the permittee shall test annually to demonstrate compliance with the applicable emissions standards according to the procedures in 40 CFR 63, Subparts A and BB.								
	PM VE SO ₂ Pressure drop**** Water flow rate**** Mass flow****	Oil/gas Fuel oil	5 9 fuel analysis, and sampling	annual annual	5-August 5-August	1 hour 1 hour	Yes	III. F.8. & F.9. III. F.8, F.9., & F.10. III. F.11. III. F.13. & F.15. III. F.13. III. F.12. & F.16.
****Note that applicable requirements of 40 CFR Subparts A and BB supercede on or after the date that the initial performance test is completed.								
Notes: *Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C. **CMS [=] continuous monitoring system								

Table 2-1, Summary of Compliance Requirements

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

-045 Molten Sulfur Storage & Handling -- Stack 45 from West 200 ton molten sulfur pit
-046 Molten Sulfur Storage & Handling -- Vent 44 and 44A from 1,000 ton tank
-047 Molten Sulfur Storage & Handling -- Vent 43, 43A, 43B, 43C and 43D from 3,000 ton tank
-050 Molten Sulfur Storage & Handling -- Stack 47 from East 300 ton molten sulfur pit
-051 Cleaver Brooks Package Watertube Boiler

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-045, 046, 047, 050	VE		DEP Method 9	five years	180 days prior to exp. date	30 minutes		III. G.4., G.5., & G.6.
-051	VE	oil	9	annual	2-April	1 hour		III. H.4. & H.5.
	VE	gas	9	five years	6 months prior to exp. date	1 hour		III. H.5. & H.7.
	SO ₂	No. 2 Fuel Oil	fuel analysis, and sampling	annual	2-April	1 hour		III. H.6.

Notes: *Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

**CMS [=] continuous monitoring system

Table 2-1, Summary of Compliance Requirements

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No. 1050046-018-AV
Facility ID No.: 1050046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No.	Brief Description
-054	Double Absorption Sulfuric Acid Plant
-055	Steam Generator
-056	Molten Sulfur Handling Truck Pit
-057	Molten Sulfur Storage & Handling Tank North
-058	Molten Sulfur Storage & Handling Tank Southeast
-059	Molten Sulfur Storage & Handling Tank Southwest
-060	Molten Sulfur Storage & Handling Mid.

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-054	SO ₂	Sulfur	Method 8	Annual	June 18	1 hour (40dscf)	Yes	III.J.
	Acid Mist	Sulfur	Method 8	Annual	June 18	1 hour (40dscf)	Yes	III.J.
	V.E.		Method 9	Annual	June 18	1 hour	yes	III.J.
-055	Opacity	Natural Gas	Method 9	Annual	January 18	60 minutes	No	III.K.
		#2 Oil	Method 9	Annual	January 18	60 minutes	No	III.K.
-056 to -060	Opacity	n/a	Method 9	Permit Renewal		30 minutes	No	III.L.

Notes: *Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

**CMS [=] continuous monitoring system

Appendix H-1, Permit History/ID Number Changes

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No.: 1050046-018-AV
Facility ID No.: 1050046

Permit History (for tracking purposes):

<u>E.U. ID No.</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Expiration Date</u>	<u>Extended Date^{1,2}</u>	<u>Revised Date(s)</u>
-001	Ammonium Phosphate Fertilizer Plant	AC53-5028	04/30/76	11/30/76		
		AC53-5110	01/04/77	12/30/77		
		AC53-6017	03/27/78	08/30/78		
		AC53-42443	08/04/81	12/31/82	8/27/81	
		AO53-169781	12/22/89	12/22/94		
		1050046-022-AC				
-002	No. 4 Fertilizer Shipping Plant	AC53-36672	02/25/81	10/01/82		
		AO53-167640	09/26/89	09/26/94		
		AC53-239194	04/01/94	12/31/94	08/31/96	
-004	No. 3 Fertilizer Shipping Plant	AO53-185367	09/18/90	09/18/95		
		Amendment	10/13/93	09/18/95		
		Amendment	11/10/94	09/18/95		
-010	No. 4 Phosphoric Acid Plant	AO53-167775	11/15/89	10/14/94		
		Amendment	01/20/94	10/14/94		
		AC53-253092	10/06/94	12/15/96		
		AC53-262532/ PSD-FL-224	08/24/95	12/31/97		

Notes:

1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.

2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.

{Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}

Not included in this table: Operating permits issued prior to 1988, ownership transfers, and construction permit time extensions for expired construction permits.

Appendix H-1, Permit History/ID Number Changes

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No.: 1050046-018-AV
Facility ID No.: 1050046

-012, 032, 033	Nos. 4, 5, and 6 Sulfuric Acid Plant	AO53-167885	10/19/89	10/13/94	
		Amendment	07/02/92	10/13/94	
		AC53-216288/ PSD-FL-191	01/05/92	01/01/94	04/01/94
		AO53-243295	05/10/94	05/09/99	
		AC53-271436/ PSD-FL-229	11/16/95	10/31/98	
-021	Diammonium Phosphate Fertilizer Plant	AC53-24460	07/03/80	12/31/82	06/30/82
		Amendment	11/17/82	12/31/82	
		AO53-82350	09/21/84	09/14/89	
		Amendment	05/10/88	09/14/89	
		AO53-167639	11/16/89	10/17/94	
		AC53-246403/ PSD-FI-211	11/21/94	06/02/95	
-034	No. 5 Phosphoric Acid Plant	AC53-2650	07/22/75	02/15/77	
		AC53-173936	04/03/90	09/01/90	
		AO53-185774	11/09/90	11/09/95	
		AO53-185774A	08/31/94	11/09/95	
		AC53-262532/ PSD-FL-224	08/24/95	12/31/97	

Notes:

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
- 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
- {Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}
- Not included in this table: Operating permits issued prior to 1988, ownership transfers, and construction permit time extensions for expired construction permits.

Appendix H-1, Permit History/ID Number Changes

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No.: 1050046-018-AV
Facility ID No.: 1050046

-045, Molten Sulfur Unloading	AC53-174175	08/17/90	01/01/91	
046, Storage and Handling System	AO53-188627	01/17/91	01/18/96	
047, 048	AC53-216256	08/28/92	08/25/93	02/25/94
049, 050	AO53-188627A	12/22/93	01/18/96	
	AC53-271436/ PSD-FL-229	11/16/95	10/31/98	
-051 Cleaver Brooks Package	AC53-221062	03/18/93	06/30/93	
Watertube Boiler	AO53-229393	04/26/93	04/21/98	
-054 Sulfuric Acid Plant	AC53-2584	12/26/74	9/16/75	
	AO53-6050	12/14/78	1/31/83	
	AC53-6458A	8/28/78	8/30/79	
	AO53-17115	3/1/97	2/1/84	
	AO53-78016	1/31/84	1/15/89	
	AC53-85261	7/2/85	7/1/86	
	AO53-117930	9/11/86	8/28/91	
	AO53-198769	8/30/91	8/28/96	

Notes:

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
- 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
- {Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}
- Not included in this table: Operating permits issued prior to 1988, ownership transfers, and construction permit time extensions for expired construction permits.

Appendix H-1, Permit History/ID Number Changes

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No.: 1050046-018-AV
Facility ID No.: 1050046

-055	Steam Generator	AC53-234449	12/9/93	11/9/94	
		AO53-249982	6/24/94	6/20/99	
-056	Molten Sulfur Truck Pit	AC53-163740	9/28/89	4/1/90	7/2/92
		AO53-173754	4/3/90	4/3/95	
-057	Molten Sulfur Tank North	AC53-163740	9/28/89	4/1/90	7/2/92
		AO53-173754	4/3/90	4/3/95	
-058	Molten Sulfur Tank Southeast	AC53-163740	9/28/89	4/1/90	7/2/92
		AO53-173754	4/3/90	4/3/95	
-059	Molten Sulfur Tank Southwest	AC53-163740	9/28/89	4/1/90	7/2/92
		AO53-173754	4/3/90	4/3/95	
-060	Molten Sulfur Tank Mid.	AC53-163740	9/28/89	4/1/90	7/2/92
		AO53-173754	4/3/90	4/3/95	
-All	Revision (EU 001-053)	1050046-016-AV			
	TV Renewal	1050046-018-AV			
	Removal of Conditions	1050046-022-AC			

Notes:

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
- 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
- {Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}
- Not included in this table: Operating permits issued prior to 1988, ownership transfers, and construction permit time extensions for expired construction permits.

Appendix H-1, Permit History/ID Number Changes

Mosaic Fertilizer, LLC
Bartow Facility

DRAFT Permit No.: 1050046-018-AV
Facility ID No.: 1050046

ID Number Changes (for tracking purposes):

From: Facility ID No.: 40TPA530046
To: Facility ID No.: 1050046

NOTE: Cargill Mulberry became part of the Cargill Bartow Permit during the renewal process of project 1050046-018-AV. Emissions Units 054-060 were Cargill Mulberry Units Emissions Units which are still in operation and will operate under the current Cargill Bartow Permit. Cargill Fertilizer, Inc. is Now Mosaic Fertilizer, LLC.

For historical purposes, Cargill Mulberry Facility ID #1050048 was formerly Facility ID# 40TPA530048

Notes:

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
 - 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
{Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}
- Not included in this table: Operating permits issued prior to 1988, ownership transfers, and construction permit time extensions for expired construction permits.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In the matter of:)	Bartow Facility
)	
Cargill Fertilizer, Inc.)	
)	
Petitioner.)	File No.: 03-C-AP

ORDER ON REQUEST
FOR
ALTERNATE PROCEDURES AND REQUIREMENTS

Pursuant to Rule 62-297.620, Florida Administrative Code (F.A.C.), and Title 40 of the Code of Federal Regulations Part 63, section 63.8 (40 CFR 63.8), Cargill Fertilizer, Inc., located in Polk County, has petitioned for approval of alternate monitoring methods for scrubbers at the Bartow facility. The Petitioner requested approval to monitor fan amperage in lieu of establishing an upper limit on pressure drop across each scrubber. The basis for this request is the Petitioner's assertion that certain technical aspects would make limiting pressure drop in the scrubbers at this facility impractical. Petitioner agreed to continue to monitor pressure drop, liquid flow rate, and fan amperage for each scrubber. Petitioner also agreed to establish allowable ranges for liquid flow rate and fan amperage and to establish a minimum allowable pressure drop.

Having considered Petitioner's written request and all supporting documentation, the following Findings of Fact, Conclusions of Law, and Order are entered:

FINDINGS OF FACT

1. 40 CFR 63, Subparts AA and BB require all phosphate fertilizer and phosphoric acid manufacturing plants that are major sources of hazardous air pollutants to monitor liquid flow rate to each scrubber and pressure drop across each scrubber used to control hydrogen fluoride emissions. Additionally, each affected facility must establish allowable ranges for these parameters by submitting upper and lower values for approval or by accepting the default range of $\pm 20\%$ of the baseline value as specified in Subparts AA and BB. Petitioner's Bartow facility is a major source of hazardous air pollutants. Specifically, Petitioner's Bartow facility emits 10 tons per year or more of HF. Therefore, Petitioner's Bartow facility is subject to these requirements.
2. On February 10, 2003, the Department received Petitioner's request for approval of an alternate monitoring plan for the Bartow facility. The alternate monitoring plan was requested for scrubbers subject to 40 CFR 63, Subparts AA and BB: Phosphoric Acid Plant (Emission Unit (EU) 010), No. 3 Fertilizer Plant (EU 001), and No. 4 Fertilizer Plant (EU 021).
3. On March 10, 2003, the Department requested additional information from Petitioner.
4. On May 12, 2003, the Department received Petitioner's response to the March 10, 2003 request for additional information.

5. On July 1, 2003, the Department sent a second request for additional information to Petitioner.
6. On August 20, 2003, Department staff met with representatives of Petitioner and Petitioner's consultant, Golder Associates, in Tallahassee to discuss unresolved issues.
7. On October 28, 2003, the Department received Petitioner's response to the second request for additional information as well as information requested during the August 20 meeting.
8. On November 4, 2003, Department staff met with representatives of Petitioner and Golder Associates at the Petitioner's Riverview facility to discuss remaining issues with the Petitioner's request. During that meeting, Petitioner agreed to provide the department with additional data.
9. On December 3, 2003, the Department received the additional information requested during the November 4 meeting.
10. Data submitted by Petitioner demonstrates that typical pressure drops across its scrubbers can vary by more than the $\pm 20\%$ range allowed by 40 CFR 63, Subparts AA and BB.
11. Emissions data submitted by Petitioner demonstrates that fluoride emissions rates for most units at the facility are less than 50% of the standard. Data submitted by Petitioner also shows a poor correlation between pressure drop and fluoride emissions.
12. As a result of the correspondence and meetings listed above, Petitioner ultimately proposed to establish an allowable range for fan amperage in lieu of establishing an upper limit on pressure drop across each scrubber. Petitioner also agreed to establish a minimum allowable pressure drop for each scrubber and an allowable range for liquid flow rate to each scrubber.

CONCLUSIONS OF LAW

1. The Department has jurisdiction to consider Petitioner's request pursuant to Section 403.061, Florida Statutes (F.S.), Rule 62-297.620, F.A.C., and 40 CFR 63.8.
2. Petitioner has provided reasonable justification that establishing an upper limit on pressure drop in scrubbers at this facility is impractical due to the wide variability of this parameter encountered during normal operation.
3. Petitioner has provided reasonable justification that monitoring fan amperage in lieu of establishing a maximum pressure drop is no less an effective indicator of scrubber operation than that achieved by monitoring pursuant to 40 CFR 63, Subparts AA and BB.

ORDER

Having considered Petitioner's written request and supporting documentation, it is hereby ordered that for the Phosphoric Acid Plant (Emission Unit (EU) 010), No. 3 Fertilizer Plant (EU 001), and No. 4 Fertilizer Plant (EU 021):

1. Petitioner shall not be required to establish an upper limit on the pressure drop across each scrubber.
2. Petitioner shall establish a minimum allowable pressure drop across each scrubber pursuant to the requirements in 40 CFR 63, Subparts AA and BB and shall submit such values to the department for approval.
3. Petitioner shall establish minimum and maximum acceptable fan amperages for each fan in the scrubbing systems pursuant to the requirements in 40 CFR 63, Subparts AA and BB and shall submit such values to the department for approval.
4. Petitioner shall establish minimum and maximum acceptable values for liquid flow rate to each scrubber pursuant to the requirements in 40 CFR 63, Subparts AA and BB and shall submit such values to the department for approval.
5. Petitioner shall continuously monitor pressure drop and liquid flow rate for each scrubber and shall continuously monitor fan amperage for each fan in the scrubbing systems.
6. Except as provided by this order, Petitioner shall comply with all applicable provisions of 40 CFR 63, Subparts AA and BB.
7. This Order shall expire on January 7, 2014.

PETITION FOR ADMINISTRATIVE REVIEW

The Department's proposed agency action will become final upon expiration of the petition period described below unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed agency action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3) of the Florida Statutes must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice, whichever occurs first. Under Section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within twenty-one days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of how and when petitioner received notice of the agency action or proposed action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

NOTICE OF APPEAL RIGHTS

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 thirty days after this order is filed with the clerk of the Department.

DONE AND ORDERED this _____ day of _____, 2004 in Tallahassee,
Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

MICHAEL G. COOKE, Director
Division of Air Resource Management
Mail Station 5500
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 488-0114

Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to §120.52, Florida
Statutes, with the designated Department Clerk, receipt
of which is hereby acknowledged.

(Clerk)

(Date)