

# Memorandum

# Florida Department of Environmental Protection

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TO: Trina Vielhauer

THRU: Al Linero

FROM: Syed Arif *Syed Arif 6/19*

DATE: June 19, 2003

SUBJECT: DEP File No. 1050053-034-AC  
South DAP Plant  
Green Bay Facility

Attached for your review is the construction permit for modifying the existing South Diammonium Phosphate (DAP) Fertilizer Plant so that it can alternatively produce Monoammonium Phosphate (MAP) at its Green Bay Facility located at 4390 C.R. 640 West, Bartow, Polk County, Florida. A determination of Best Available Control Technology pursuant to Rule 62-212.400, F.A.C. was not required at this time.

The Department is currently reviewing another Prevention of Significant Deterioration (PSD) application for the same plant which requests an increase in the production rates for both DAP and MAP production.

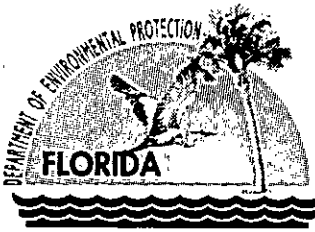
Due to extreme market pressures, as well as product quality considerations, Cargill is requesting interim approval to produce MAP at their South DAP Fertilizer Plant while the Department is still reviewing the PSD application. In light of this, Cargill has submitted this air construction permit application. The decrease in potential Fluoride and Particulate Matter emissions from the current operating permit due to the issuance of this air construction permit will be 84 and 83 percent, respectively. Fluoride emissions will be reduced from 52.7 tons per year (TPY) to 8.33 TPY. Particulate Matter emissions will be reduced from 205 TPY to 35.5 TPY.

The difference in current actual emissions and future potential emissions resulting from this modification of the South DAP Fertilizer to alternatively allow the production of MAP, will be below PSD significant emission rates for all criteria pollutants. The only physical change to the existing South DAP Fertilizer Plant necessary to also produce MAP is the addition of a phosphoric acid feed pipe to the granulator to redirect a portion of the phosphoric acid fed to the reactor when processing DAP.

The proposed distribution date of June 20 is Day 17 per our clock.

We recommend distribution of the attached Intent to Issue and Draft Permit.

Attachments



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

## P.E. Certification Statement

Cargill Fertilizer, Inc.  
Green Bay Facility  
South DAP Plant

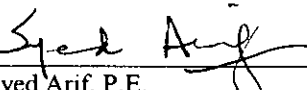
DEP File No.: 1050053-034-AC  
Facility ID No.: 1050053

**Project:** Air Construction Permit for modifying the existing South Diammonium Phosphate (DAP) Fertilizer Plant so that it can alternatively produce Monoammonium Phosphate (MAP) at its Green Bay Facility located at 4390 C.R. 640 West, Bartow, Polk County, Florida. A determination of Best Available Control Technology pursuant to Rule 62-212.400, F.A.C. was not required at this time. The difference in current actual emissions and future potential emissions resulting from this modification will be below PSD significant emission rates for all criteria pollutants.

**I HEREBY CERTIFY** that the engineering features described in the above referenced application and related additional information submittals, if any, 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).

I conducted this review.

(Seal)

  
\_\_\_\_\_

Syed Arif, P.E.  
Registration Number: 51861

6/19/03  
Date

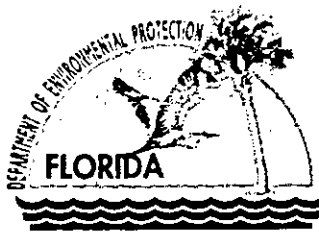
Permitting Authority:

Florida Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation  
New Source Review Section  
Mail Station #5505  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Telephone: 850/921-9528  
Fax: 850/921-9533

*"More Protection, Less Process"*

*Printed on recycled paper.*



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

June 20, 2003

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David B. Jellerson,  
Environmental Manager  
Cargill Fertilizer, Inc.  
8813 Highway 41 South  
Riverview, Florida 33569

Re: DEP File No. 1050053-034-AC  
South DAP Plant  
Green Bay Facility

Dear Mr. Jellerson:

Enclosed is one copy of the Draft air construction permit to modify the existing South DAP Fertilizer Plant so that it can alternatively produce MAP at the Green Bay Facility located near Bartow, Polk County. The Technical Evaluation and Preliminary Determination, the Department's Intent to Issue Air Construction Permit and the Public Notice of Intent to Issue Air Construction Permit are also included.

The Public Notice must be published one time only, as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected, pursuant to the requirements of Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. A. A. Linero, Program Administrator, at the above letterhead address. If you have any other questions, please contact Mr. Syed Arif, P.E. at 850/921-9528.

Sincerely,

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

TLV/sa

Enclosures

"More Protection, Less Process"

Printed on recycled paper.

In the Matter of an  
Application for Permit by:

Mr. David B. Jellerson, Environmental Manager  
Cargill Fertilizer, Inc.  
8813 Highway 41 South  
Riverview, Florida 33569

DEP File No. 1050053-034-AC  
Green Bay Facility  
Polk County

### INTENT TO ISSUE AIR CONSTRUCTION PERMIT

The Department of Environmental Protection (Department) gives notice of its intent to issue a permit (copy attached) for the proposed project, detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Cargill Fertilizer, Inc., applied on June 3, 2003, to the Department of Environmental Protection for a permit to modify the existing South DAP Fertilizer Plant so that it can alternatively produce MAP at its Green Bay Facility. The facility is located in Polk County, Florida.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that an Air Construction permit is required.

The Department intends to issue this air construction permit based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Construction Permit. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. 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 Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of the enclosed Public Notice. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions 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 permitting decision 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 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) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, 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 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 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.

In addition to the above, a person subject to regulation has a right to apply 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.

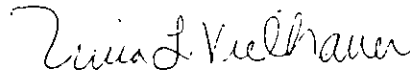
The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number 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 EPA 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.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

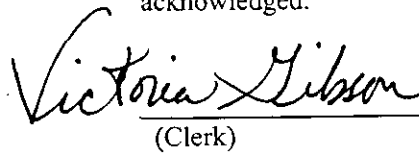
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Construction Permit (including the Public Notice, Technical Evaluation and Preliminary Determination, and the DRAFT permit) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 6/23/03 to the person(s) listed:

- David B. Jellerson, Cargill Fertilizer, Inc.\*
- David Buff, P.E., Golder Associates, Inc.
- Karen Borel, EPA
- John Bunyak, NPS
- Jerry Kissell, DEP-SWD

Clerk Stamp

**FILED AND ACKNOWLEDGMENT FILED**, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 June 23, 2003  
(Clerk) (Date)

## **PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT**

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 1050053- 034-AC

Cargill Fertilizer, Inc.  
Green Bay Facility  
Polk County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Cargill Fertilizer, Inc. for modifying the existing South Diammonium Phosphate (DAP) Fertilizer Plant so that it can alternatively produce Monoammonium Phosphate (MAP) at the Green Bay Facility located at 4390 C.R. 640 West, Bartow, Polk County, Florida. A determination of Best Available Control Technology pursuant to Rule 62-212.400, F.A.C. was not required at this time. The applicant's name and address are: Cargill Fertilizer, Inc., 8813 Highway 41 South, Riverview, Florida 33569.

The Department is currently reviewing another Prevention of Significant Deterioration (PSD) application for the same plant which requests an increase in the production rates for both DAP and MAP production.

Due to extreme market pressures, as well as product quality considerations, Cargill is requesting interim approval to produce MAP at their South DAP Fertilizer Plant while the Department is still reviewing the PSD application. In light of this, Cargill has submitted this air construction permit application. The decrease in potential Fluoride and Particulate Matter emissions from the current operating permit due to the issuance of this air construction permit will be 84 and 83 percent, respectively. Fluoride emissions will be reduced from 52.7 tons per year (TPY) to 8.33 TPY. Particulate Matter emissions will be reduced from 205 TPY to 35.5 TPY.

The difference in current actual emissions and future potential emissions resulting from this modification of the South DAP Fertilizer to alternatively allow the production of MAP, will be below PSD significant emission rates for all criteria pollutants. The only physical change to the existing South DAP Fertilizer Plant necessary to also produce MAP is the addition of a phosphoric acid feed pipe to the granulator to redirect a portion of the phosphoric acid fed to the reactor when processing DAP.

The Department will issue the FINAL Permit, in accordance with the conditions of 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 Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions 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. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision 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,

Notice for Newspaper

32399-3000. Petitions filed by the permit 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) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, 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 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 of the Florida Administrative Code.

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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.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection  
Bureau of Air Regulation  
111 S. Magnolia Drive, Suite 4  
Tallahassee, Florida 32301  
Telephone: 850/488-0114  
Fax: 850/922-6979

Department of Environmental Protection  
Southwest District Office  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8218  
Telephone: 813/744-6100  
Fax: 813/744-6084

The complete project file includes the application, technical evaluations, Draft Permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Program Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.



TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION

CARGILL FERTILIZER, INC.

South DAP Plant  
Green Bay Facility  
Polk County, Florida

DEP File Number  
1050053-034-AC

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

June 19, 2003

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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## I. APPLICATION INFORMATION

### A. Applicant

Cargill Fertilizer, Inc.

4390 C.R. 640 West

Bartow, Polk County, Florida 33830

Authorized Representative: Mr. David B. Jellerson, Environmental Manager

### B. Request

Cargill Fertilizer, Inc. has recently taken ownership of the Green Bay phosphate fertilizer manufacturing facility previously owned by Farmland Hydro, L.P. Due to extreme market pressures, as well as product quality considerations, Cargill desires the option to also produce Monoammonium Phosphate (MAP) in the South Diammonium Phosphate (DAP) Fertilizer Plant. To address this situation in the short term, Cargill can produce MAP in the South DAP Fertilizer Plant by simply redirecting to the granulator a portion of the phosphoric acid now added in the reactor. The total amount of phosphoric acid used in the process would not change from current conditions. Ammonia, which is required to be added in the granulator for the production of DAP, is not used in the granulator for the production of MAP, and the total amount of ammonia used in the process would decrease. The only physical change required would be the addition of a small pipe in the granulator to add the acid.

### C. Facility Location

The applicant's facility is located at 4390 C.R. 640 West, Bartow, Polk County, Florida. Latitude and longitude are 27° 50' 39" North and 81° 56' 26" West, respectively. UTM coordinates of the site are: Zone 17, 409.5 km East and 3080.1 km North.

Facility Identification Code (SIC): Major Group No. 28, Industry Group Nos. 2874 and 2819.

### D. Reviewing and Process Schedule

06-03-03: Date of Receipt of Application  
06-05-03: DEP Telephonic Completeness Request  
06-09-03: Application complete

**II. PROJECT DESCRIPTION/EMISSIONS**

The applicant proposes to modify the South DAP Fertilizer Plant so that it may also produce MAP. This modification simply requires that a portion of the phosphoric acid currently added to the reactor be redirected to the granulator. The total amount of phosphoric acid used in the process would not change from currently permitted conditions. Ammonia, which is required to be added in the granulator for the production of DAP, is not used in the granulator for the production of MAP. The total amount of ammonia used in the process would decrease. Therefore, the total tons of granular product would decrease when producing MAP. The only physical change required would be the addition of a small pipe in the granulator to add the acid.

As currently permitted, allowable fluoride emissions from the South DAP Fertilizer Plant are a function of the  $P_2O_5$  feed rate. No change in the permitted  $P_2O_5$  feed rate is required to accommodate the production of MAP in the South DAP Fertilizer Plant. While producing MAP, Cargill will meet the current F emission limit of 0.06 lb/ton of  $P_2O_5$  feed (40 CFR 63, Subpart BB). These emission and production limits will lower maximum hourly and annual F emissions to 2.76 lb/hr (at the currently permitted maximum production rate of 46 TPH of  $P_2O_5$ ) and 8.33 TPY, respectively. To avoid New Source Review under prevention of significant deterioration (PSD) regulations, Cargill will limit the difference between current actual F emissions and future potential F emissions below the significant emission rate for F of 3.0 TPY by agreeing to limit annual  $P_2O_5$  production from this emission unit to 277,667 tons per year.

The allowable particulate matter (PM) emission rate for the South DAP Plant is 46.8 pounds per hour (lb/hr) or that allowed by the Process Weight Table Formula contained in Rule 62-296.320(4)(a), F.A.C., based on the actual process input rate to the dryer, whichever is less. To avoid New Source Review under PSD regulations, Cargill will reduce allowable PM and  $PM_{10}$  emissions from the South DAP Fertilizer Plant to 0.256 lb/ton of  $P_2O_5$  produced and limit annual MAP/DAP production to 277,667 tons per year of  $P_2O_5$ . These emission and

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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production limits will lower maximum hourly and annual PM and PM<sub>10</sub> emissions to 11.8 lb/hr (at the currently permitted maximum production rate of 46 TPH of P<sub>2</sub>O<sub>5</sub>) and 35.5 TPY, respectively.

Emissions of sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), volatile organic compounds (VOC), and sulfuric acid mist (SAM), result from the combustion of various fossil fuels in the dryer. PM/PM<sub>10</sub> emissions from the firing of fossil fuels in the dryer are already accounted for in the proposed emission limit of 0.256 lb/ton of P<sub>2</sub>O<sub>5</sub>. To avoid New Source Review under PSD regulations for this project, Cargill agrees to lower the sulfur content of fuel oil fired in the dryer from 0.5 to 0.05% and eliminate the use of liquefied propane gas.

### **III. RULE APPLICABILITY**

#### **A. Prevention of Significant Deterioration**

The current Title V permit (no. 1050053-012-AV) only regulates the feed rate of P<sub>2</sub>O<sub>5</sub> to the reactor (limit of 46 TPH P<sub>2</sub>O<sub>5</sub>). The corresponding production rate of DAP is 100 TPH. Similarly, the allowable fluoride emissions from the emissions unit are based on the P<sub>2</sub>O<sub>5</sub> feed rate. As described in Section II, the difference in current actual emissions and future potential emissions resulting from the modification of the South DAP Fertilizer to alternatively allow the production of MAP, will be below PSD significant emission rates for all criteria pollutants.

Since the amount of phosphoric acid used to produce MAP is less than the amount needed for DAP, emission rates from upstream emissions units will be not affected by the requested modification of the South DAP Plant. Similarly, since there is no production rate increase, downstream emission units will not be affected. Cargill believes that actual emissions from the South DAP Plant will not increase as a result of the change to MAP.

Since the emission increase as a result of this project will be below significant emission rates and there will be no debottlenecking of upstream or downstream emission units, New Source Review under PSD regulations is not applicable to the proposed project.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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### **B. Federal and State Emission Standards**

The proposed facility modification is subject to the applicable provisions of Chapter 403, Florida Statutes, Chapters 62-4, 62-212 and 62-296, Florida Administrative Code (F.A.C.). The facility is located in an area designated attainment or maintenance for all criteria pollutants in accordance with F.A.C. Rule 62-275.400.

Rule 62-296.403, F. A. C., Phosphate Processing, requires that existing MAP plants meet BACT or a fluoride limit for the entire plant complex of 0.4 lb/ton P<sub>2</sub>O<sub>5</sub>. The Green Bay plant meets this latter requirement.

The maximum achievable control technology (MACT) standards promulgated by EPA for Phosphate Fertilizers Production Plants (40 CFR 63, Subpart BB) apply to the South DAP Fertilizer Plant. EPA recognizes both DAP and MAP as "ammoniated phosphates", and note that most facilities can produce either product in the same process train. Therefore, EPA promulgated one MACT emission standard for ammoniated phosphates. The standard is for fluorides, and is 0.06 lb/ton of equivalent P<sub>2</sub>O<sub>5</sub> feed.

### **IV. AIR QUALITY ANALYSIS**

The proposed modification of the South DAP Fertilizer Plant will not result in significant increase of any regulated pollutant. Therefore, an air quality analysis was not required.

### **V. CONCLUSION**

Based on the foregoing technical evaluation of the application and information submitted by Cargill Fertilizer, Inc., the Department has made a preliminary determination that the proposed project will comply with all applicable state air pollution regulations. The General and Specific Conditions are listed in the attached draft conditions of approval.

**PERMITTEE:**

Cargill Fertilizer, Inc.  
4390 County Road 640 West  
Bartow, Florida 33830

*Authorized Representative:*

David B. Jellerson  
Environmental Manager

DEP Permit No.	1050053-034-AC
Project	Modification of South DAP Plant
SIC No.	2874, 2819
Expires:	March 31, 2004

**PROJECT AND LOCATION:**

Permit to modify the existing South DAP Fertilizer Plant to also produce MAP.  
The facility is located at 4390 C.R. 640 West in Polk County, Florida.  
The UTM coordinates are: Zone 17; 409.5 km E and 3080.1 km N.

**STATEMENT OF BASIS:**

This 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 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
- Appendix V 40 CFR 60, NSPS (Phosphate Fertilizer Industry)
- Appendix BB 40 CFR 63, NESHAP (Phosphate Fertilizers Production Plants)

DRAFT 06/21/03

\_\_\_\_\_  
Howard L. Rhodes, Director  
Division of Air Resources  
Management

AIR CONSTRUCTION PERMIT 105053-034-AC  
**SECTION II – ADMINISTRATIVE REQUIREMENTS**

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**FACILITY DESCRIPTION**

Cargill Fertilizer, Inc. operates a phosphate fertilizer manufacturing facility near Bartow, Polk County, Florida, producing sulfuric acid, wet-process phosphoric acid, ammoniated phosphate fertilizers and related products. To respond to extreme market pressures, Cargill is requesting interim approval to produce Monoammonium Phosphate (MAP) at their South Diammonium Phosphate (DAP) Fertilizer Plant. This process will only require that a portion of the phosphoric acid currently added to the process in the reactor be added to the process in the granulator instead. The only physical change required would be the addition of a small pipe to the granulator to add the acid.

**REGULATORY CLASSIFICATION**

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

The Cargill Green Bay Plant is classified as a "Major or Title V Source" per Rule 62-210.200, F.A.C., because it has the potential to emit at least 100 tons per year of particulate matter.

Based on the initial Title V permit application received June 14, 1996, this facility is a major source of hazardous air pollutants (HAPs).

Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants (40 CFR 60, Subpart V) apply to the South DAP Fertilizer Plant.

The maximum achievable control technology (MACT) standards promulgated by EPA for Phosphate Fertilizers Production Plants (40 CFR 63, Subpart BB) apply to the South DAP Fertilizer Plant.

**PERMIT SCHEDULE:**

- 06-03-03: Date of Receipt of Application
- 06-09-03: Application Complete
- 06-xx-03: Issued Intent to Issue Permit
- 06-xx-03: Notice of Intent published in \_\_\_\_\_

**RELEVANT DOCUMENTS:**

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

- Application received June 3, 2003
- Department's telephonic request for additional information June 5, 2003
- Applicant's submittal received June 9, 2003
- Technical Evaluation and Preliminary Determination dated June 19, 2003

AIR CONSTRUCTION PERMIT 105053-034-AC  
**SECTION II – ADMINISTRATIVE REQUIREMENTS**

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1. Regulating Agencies: All documents related to applications for permits to operate, reports, tests, minor modifications and notifications shall be submitted to the Department's Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8218. All applications for permits to construct or modify an emissions unit(s) *subject to the Prevention of Significant Deterioration or Nonattainment (NA) review requirements* should be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), 2600 Blair Stone Road, MS 5505, Tallahassee, Florida 32399-2400 (phone number 850/488-0114).
2. 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.]
3. Terminology: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Florida Administrative Code Chapters 62-4, 62-110, 62-204, 62-212, 62-213, 62-296, 62-297 and the Code of Federal Regulations Title 40, Part 60, adopted by reference in the Florida Administrative Code (F.A.C.) regulations. The facility is subject to all applicable provisions of the Code of Federal Regulations Title 40, Part 63 Subpart BB. 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. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. Expiration: This air construction permit shall expire on March 31, 2004 [Rule 62-210.300(1), F.A.C.]. The permittee may, for good cause, request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit. However, the permittee shall promptly notify the Department's Southwest District Office of any delays in completion of the project, which would affect the startup day by more than 90 days. [Rule 62-4.090, F.A.C.]
6. Application for Title V Permit: An application for a Title V operating permit, pursuant to Chapter 62-213, F.A.C., must be submitted to the Department's Southwest District Office. [Chapter 62-213, F.A.C.]
7. Permit Approval: Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. [40 CFR 52.21(r)(2)].
8. Annual Reports: Pursuant to Rule 62-210.370(2), F.A.C., Annual Operation Reports, the permittee is required to submit annual reports on the actual operating rates and emissions from this facility. Annual operating reports using DEP Form 62-210.900(4) shall be sent to the DEP's Southwest District office by March 1st of each year.
9. Stack Testing Facilities: Stack sampling facilities shall be installed in accordance with Rule 62-297.310(6), F.A.C.
10. Quarterly Reports: Quarterly excess emission reports, in accordance with 40 CFR 60.7 (a)(7) (c) (1997 version), shall be submitted to the DEP's Southwest District office.
11. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]



**AIR CONSTRUCTION PERMIT 1050053-034-AC**  
**SECTION III - EMISSION UNIT(S) SPECIFIC CONDITIONS**

**SUBSECTION A. South DAP Fertilizer Plant**

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

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
007	South DAP Fertilizer Plant

The South DAP/MAP South Plant produces a maximum of 46 tons per hour of phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) as diammonium phosphate (DAP) or monoammonium phosphate (MAP). The plant consists of a reactor, granulator, dryer, screens, mills, a rotary product cooler, and other associated process equipment. Emissions from the reactor and granulator are vented to a common custom design primary venture/cyclonic acid scrubber which then vents to a secondary custom design pond water scrubber before exhausting to the atmosphere through Stack A. Emissions from the dryer are vented to an Airetron primary venture/cyclonic acid scrubber which then vents to a secondary cross-flow pond water scrubber before exhausting to the atmosphere through Stack B. Emissions from the screens and mills are vented to an Airetron primary venturi/cyclonic acid scrubber which then vents to the same secondary cross-flow pond water scrubber as the dryer before exhausting to the atmosphere through Stack B. Emissions from the rotary product cooler vent to a venture/cyclonic acid scrubber before exhausting to the atmosphere through Stack B. Stack A is located to the west of Stack B. The dryer may be fired with natural gas, or new No. 2 fuel oil at a maximum heat input rate of 60.0 MMBTU/hr.

*{Permitting note(s): This emissions unit is regulated under Rule 62-296.403, F.A.C., Phosphate Processing (fluorides); Rule 62-296.320(4), F.A.C., General Particulate Emission Limiting Standards; and Rule 62-296.320(2), F.A.C., General Pollutant Emission Limiting Standards (objectionable odors), 40 CFR 60, Subpart V - Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants, 40 CFR 63, Subpart BB - National Emission Standards for Hazardous Air Pollutants from Phosphate Fertilizers Production Plants.}*

**CONSTRUCTION**

1. South DAP Fertilizer Plant Modification Project: The permittee is authorized to perform the following work to modify the existing South DAP Fertilizer Plant so that it can also produce MAP: add a pipe that while producing MAP can be used to divert a portion of the phosphoric acid to the granulator that is normally fed only to the reactor when producing DAP.

[Application dated June 3, 2003]

**EMISSION AND PERFORMANCE REQUIREMENTS**

2. Capacity:

a. The feed rate of material, expressed as 100% P<sub>2</sub>O<sub>5</sub>, to the reactor shall not exceed 46 tons per hour, which corresponds to 100 tons per hour (TPH) and 92 TPH MAP.

b. The annual production rate, expressed as 100% P<sub>2</sub>O<sub>5</sub>, shall not exceed 277,667 tons per year.

[Application dated June 3, 2003; Rules 62-212.300, 62-296.403(2), and 62-210.200(PTE), F.A.C.]

*{Permitting note(s): The authorized construction shall not result in any increases in current permitted capacities for this emission unit.}*

3. Fuels: The fuel used in the dryer shall be limited to No. 2 Fuel Oil with a maximum sulfur content of 0.05% or natural gas.

[Application dated June 3, 2003; Rules 62-212.300, 62-296.403(2), and 62-210.200(PTE), F.A.C.]

**AIR CONSTRUCTION PERMIT 1050053-034-AC**  
**SECTION III - EMISSION UNIT(S) SPECIFIC CONDITIONS**

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4. Emissions:

a. PM and PM<sub>10</sub> emissions shall not exceed 0.256 lb/ton of P<sub>2</sub>O<sub>5</sub>, which corresponds to an hourly emission limit of 11.8 lb/hr and an annual emission limit of 35.5 TPY from Stacks A and B combined.

b. F emissions shall not exceed 0.06 lb/ton of P<sub>2</sub>O<sub>5</sub>, which corresponds to an hourly emission limit of 2.76 lb/hr and an annual emission limit of 8.33 TPY from Stacks A and B combined.

[Application dated June 3, 2003; Rule 62-296.403(2), F.A.C.; 40 CFR 63.622(a), 63.626(a)(1), and 63.630(a)]

5. Visible Emissions from Stack A and Stack B shall each not be equal to or greater than 20% opacity.

[Rule 62-296.320(4)(b), F.A.C.]

**TEST METHODS AND PROCEDURES**

6. The compliance test procedures for particulate matter shall be in accordance with EPA Reference Method 5 as published in 40 CFR 60, Appendix A.

[Rule 62-297.410(5), F.A.C.]

7. The compliance test procedures for fluorides shall be in accordance with EPA Reference Methods 13A or 13B as published in 40 CFR 60, Appendix A.

[Rule 62-297.410(13), F.A.C.]

8. The compliance test procedures for visible emissions shall be in accordance with EPA Reference Method 9 as published in 40 CFR 60, Appendix A.

[Rule 62-297.410(9), F.A.C.]

9. Before this construction permit expires, and annually, the subject emissions units shall be tested for compliance with the applicable emission limits. For the duration of all tests the emission units shall be operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then the emission unit may be tested at less than permitted capacity (i.e., 90% of the maximum operating rate allowed by the permit); in this case, subsequent emission unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emission unit is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.

[Rule 62-297.310, F.A.C.]

10. The Department's Southwest District office shall be notified in writing at least 15 days prior to source testing. 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.]

**MONITORING REQUIREMENTS**

11. Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line or granular triple superphosphate process line subject to the provisions of this subpart 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 ±5 percent over its operating range.

[Rule 40 CFR 63.625(a)]

12. Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line, granular triple superphosphate process line, or granular triple superphosphate storage building using a wet scrubbing emission control system shall install, calibrate, maintain, and operate the following monitoring systems:

**AIR CONSTRUCTION PERMIT 1050053-034-AC**  
**SECTION III - EMISSION UNIT(S) SPECIFIC CONDITIONS**

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(1) 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  $\pm 5$  percent over its operating range.

(2) 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  $\pm 5$  percent over its operating range.

[Rule 40 CFR 63.625(c)]

13. 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 (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  $\pm 20$  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  $\pm 20$  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  $\pm 10$  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.

[Rule 40 CFR 63.625(f)]

**APPENDIX GC**  
**GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]**

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- 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,
  - 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

**APPENDIX GC**  
**GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]**

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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 non-compliance 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 ( )
  - b) Determination of Prevention of Significant Deterioration ( );
  - c) Compliance with New Source Performance Standards (x). Subpart V requirements and
  - d) Compliance with National Emission Standards for Hazardous Air Pollutants (x). Subpart BB requirements
- 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.

Updated 2/13/02

## **Subpart V-Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants**

### **§ 60.220 Applicability and designation of affected facility.**

(a) The affected facility to which the provisions of this subpart apply is each granular diammonium phosphate plant having a design capacity of more than 15 tons of equivalent P<sub>2</sub>O<sub>5</sub> feed per calendar day. For the purpose of this subpart, the affected facility includes any combination of: reactors, granulators, dryers, coolers, screens, and mills.

(b) Any facility under paragraph (a) of this section that commences construction or modification after October 22, 1974, is subject to the requirements of this subpart.

### **§ 60.221 Definitions.**

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

(a) *Granular diammonium phosphate plant* means any plant manufacturing granular diammonium phosphate by reacting phosphoric acid with ammonia.

(b) *Total fluorides* means elemental fluorine and all fluoride compounds as measured by reference methods specified in § 60.224, or equivalent or alternative methods.

(c) *Equivalent P<sub>2</sub>O<sub>5</sub> feed* means the quantity of phosphorus, expressed as phosphorus pentoxide, fed to the process.

### **§ 60.222 Standard for fluorides.**

(a) On and after the date on which the performance test required to be conducted by § 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which contain total fluorides in excess of 30 g/ megagram (Mg) of equivalent P<sub>2</sub>O<sub>5</sub> feed (0.060 lb/ton).

### **§ 60.223 Monitoring of operations.**

(a) The owner or operator of any granular diammonium phosphate plant subject to the provisions of this subpart shall install, 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 flow monitoring device shall have an accuracy of ±5 percent over its operating range.

(b) The owner or operator of any granular diammonium phosphate plant shall maintain a daily record of equivalent P<sub>2</sub>O<sub>5</sub> feed by first determining the total mass rate in Mg/hr of phosphorus-bearing feed using a flow monitoring device meeting the requirements of paragraph (a) of this section and then by proceeding according to § 60.224(b)(3).

(c) The owner or operator of any granular diammonium phosphate plant subject to the provisions of this subpart shall install, calibrate, maintain, and operate a monitoring device which

continuously measures and permanently records the total pressure drop across the scrubbing system. The monitoring device shall have an accuracy of  $\pm 5$  percent over its operating range.

**§ 60.224 Test methods and procedures.**

(a) In conducting the performance tests required in § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b).

(b) The owner or operator shall determine compliance with the total fluorides standard in § 60.222 as follows:

- (1) The emission rate (E) of total fluorides shall be computed for each run using the following equation:

$$E = \left( \sum_{i=1}^N C_{si} Q_{sdi} \right) / (PK)$$

[View or Download PDF](#)

where:

E=emission rate of total fluorides, g/Mg (lb/ton) of equivalent P2O5 feed.

C<sub>si</sub>=concentration of total fluorides from emission point "i," mg/dscm (gr/dscf).

Q<sub>sdi</sub>=volumetric flow rate of effluent gas from emission point "i," dscm/hr (dscf/hr).

N=number of emission points associated with the affected facility.

P=equivalent P2O5 feed rate, Mg/hr (ton/hr).

K=conversion factor, 1000 mg/g (7,000 gr/lb).

(2) Method 13A or 13B shall be used to determine the total fluorides concentration (C<sub>si</sub>) and volumetric flow rate (Q<sub>sdi</sub>) of the effluent gas from each of the emission points. The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf).

(3) The equivalent P2O5 feed rate (P) shall be computed for each run using the following equation:

$$P = M_p R_p$$

where:

M<sub>p</sub>=total mass flow rate of phosphorus-bearing feed, Mg/hr (ton/hr).

R<sub>p</sub>=P2O5 content, decimal fraction.

(i) The accountability system of § 60.223(a) shall be used to determine the mass flow rate (M<sub>p</sub>) of the phosphorus-bearing feed.

(ii) The Association of Official Analytical Chemists (AOAC) Method 9 (incorporated by reference -- see § 60.17) shall be used to determine the P2O5 content (R<sub>p</sub>) of the feed.

[Last Updated 12/20/02]

**Subpart BB- National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants**

Sec.

GENERAL

63.620 Applicability

63.621 Definitions.

EMISSION STANDARDS AND OPERATING LIMITS

63.622 Standards for existing sources.

63.623 Standards for new sources.

63.624 Operating Requirements.

MONITORING AND COMPLIANCE PROVISIONS

63.625 Monitoring requirements.

63.626 Performance tests and compliance provisions.

NOTIFICATION, REPORTING AND RECORDKEEPING

63.627 Notification, recordkeeping, and reporting requirements.

63.628 Applicability of general provisions.

63.629 Miscellaneous requirements.

63.630 Compliance dates.

OTHER

63.631 Exemption from new source performance standards.

**Appendix A to Subpart BB- Applicability to General Provisions to Subpart BB**

**Subpart BB- National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants**

GENERAL

**§ 63.620 Applicability.**

(a) Except as provided in paragraphs (c) and (d) of this section, the requirements of this subpart apply to the owner or operator of each phosphate fertilizers production plant.

(b) The requirements of this subpart apply to emissions of hazardous air pollutants (HAPs) emitted from the following new or existing affected sources at a phosphate fertilizers production plant:

(1) Each diammonium and/or monoammonium phosphate process line. The requirements of this subpart apply to the following emission points which are components of a diammonium and/or monoammonium phosphate process line: reactors, granulators, dryers, coolers, screens, and mills.

(2) Each granular triple superphosphate process line. The requirements of this subpart apply to the following emission points which are components of a granular triple superphosphate process line: mixers, curing belts (dens), reactors, granulators, dryers, coolers, screens, and mills.

(3) Each granular triple superphosphate storage building. The requirements of this subpart apply to the following emission points which are components of a granular triple superphosphate storage building: storage or curing buildings, conveyors, elevators, screens and mills.

(c) The requirements of this subpart do not apply to the owner or operator of a new or existing phosphate fertilizers production plant that is not a major source as defined in § 63.2.



(d) The provisions of this subpart do not apply to research and development facilities as defined in § 63.621.

#### § 63.621 Definitions.

Terms used in this subpart are defined in the Clean Air Act, in § 63.2, or in this section as follows:

Diammonium and/or monoammonium phosphate process line means any process line manufacturing granular diammonium and/or monoammonium phosphate by reacting ammonia with phosphoric acid which has been derived from or manufactured by reacting phosphate rock and acid.

Equivalent P<sub>2</sub>O<sub>5</sub> feed means the quantity of phosphorus, expressed as phosphorous pentoxide, fed to the process.

Equivalent P<sub>2</sub>O<sub>5</sub> stored means the quantity of phosphorus, expressed as phosphorus pentoxide, being cured or stored in the affected facility.

Exceedance means a departure from an indicator range established for monitoring under this subpart, consistent with any averaging period specified for averaging the results of the monitoring.

Fresh granular triple superphosphate means granular triple superphosphate produced within the preceding 72 hours.

Granular triple superphosphate process line means any process line, not including storage buildings, manufacturing granular triple superphosphate by reacting phosphate rock with phosphoric acid.

Granular triple superphosphate storage building means any building curing or storing fresh granular triple superphosphate.

Research and development facility means research or laboratory operations whose primary purpose is to conduct research and development into new processes and products, where the operations are under the close supervision of technically trained personnel, and where the facility is not engaged in the manufacture of products for commercial sale in commerce or other off-site distribution, except in a de minimis manner.

Total fluorides means elemental fluorine and all fluoride compounds, including the HAP hydrogen fluoride, as measured by reference methods specified in 40 CFR Part 60, Appendix A, Method 13 A or B, or by equivalent or alternative methods approved by the Administrator pursuant to §63.7(f).

### EMISSION STANDARDS AND OPERATING LIMITS

#### § 63.622 Standards for existing sources.

(a) Diammonium and/or monoammonium phosphate process line. On and after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected source any gases which contain total fluorides in excess of 30 grams/metric ton of equivalent P<sub>2</sub>O<sub>5</sub> feed (0.060 lb/ton).

(b) Granular triple superphosphate process line. On and after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected source any gases which contain total fluorides in excess of 75 grams/metric ton of equivalent P<sub>2</sub>O<sub>5</sub> feed (0.150 lb/ton).

(c) Granular triple superphosphate storage building.

(1) On and after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, no owner or operator subject to the provisions of this subpart

shall cause to be discharged into the atmosphere from any affected source any gases which contain total fluorides in excess of 0.250 grams/hr/metric ton of equivalent  $P_2O_5$  stored ( $5.0 \times 10^{-4}$  lb/hr/ton of equivalent  $P_2O_5$  stored).

(2) No owner or operator subject to the provisions of this subpart shall ship fresh granular triple superphosphate from an affected facility.

#### **§ 63.623 Standards for new sources.**

(a) Diammonium and/or monoammonium phosphate process line. On and after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected source any gases which contain total fluorides in excess of 29.0 grams/metric ton of equivalent  $P_2O_5$  feed (0.0580 lb/ton).

(b) Granular triple superphosphate process line. On and after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected source any gases which contain total fluorides in excess of 61.50 grams/metric ton of equivalent  $P_2O_5$  feed (0.1230 lb/ton).

(c) Granular triple superphosphate storage building

(1) On and after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected source any gases which contain total fluorides in excess of 0.250 grams/hr/metric ton of equivalent  $P_2O_5$  stored ( $5.0 \times 10^{-4}$  lb/hr/ton of equivalent  $P_2O_5$  stored).

(2) No owner or operator subject to the provisions of this subpart shall ship fresh granular triple superphosphate from an affected facility.

#### **§ 63.624 Operating Requirements.**

On or after the date on which the performance test required to be conducted by §§ 63.7 and 63.626 is required to be completed, the owner/operator using a wet scrubbing emission control system 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 to the requirements of § 63.625(f)(1) or (2).

### **MONITORING AND COMPLIANCE PROVISIONS**

#### **§ 63.625 Monitoring requirements.**

(a) Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line or granular triple superphosphate process line subject to the provisions of this subpart 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  $\pm 5$  percent over its operating range.

(b) Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line or granular triple superphosphate process line subject to the provisions of this subpart shall maintain a daily record of equivalent  $P_2O_5$  feed by first determining the total mass rate in metric ton/hour of phosphorus bearing feed using a monitoring system for measuring mass flowrate which

meets the requirements of paragraph (a) of this section and then by proceeding according to §63.626(c)(3).

(c) Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line, granular triple superphosphate process line, or granular triple superphosphate storage building using a wet scrubbing emission control system shall install, calibrate, maintain, and operate the following monitoring systems:

(1) 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  $\pm 5$  percent over its operating range.

(2) 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  $\pm 5$  percent over its operating range.

(d) The owner or operator of any granular triple superphosphate storage building subject to the provisions of this subpart shall maintain an accurate account of granular triple superphosphate in storage to permit the determination of the amount of equivalent  $P_2O_5$  stored.

(e) (1) Each owner or operator of a new or existing granular triple superphosphate storage building subject to the provisions of this subpart shall maintain a daily record of total equivalent  $P_2O_5$  stored by multiplying the percentage  $P_2O_5$  content, as determined by § 63.626(d)(3), times the total mass of granular triple superphosphate stored.

(2) The owner or operator of any granular triple superphosphate storage building subject to the provisions of this subpart shall develop for approval by the Administrator a site-specific methodology including sufficient recordkeeping for the purposes of demonstrating compliance with § 63.622(c)(2) or 63.623(c)(2), as applicable.

(f) 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  $\pm 20$  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  $\pm 20$  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  $\pm 10$  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.

**§ 63.626 Performance tests and compliance provisions.**

(a) (1) On or before the applicable compliance date in § 63.630 and once per annum thereafter, each owner or operator of a phosphate fertilizers production plant subject to the provisions of this subpart shall conduct a performance test to demonstrate compliance with the applicable emission standard for each existing diammonium and/or monoammonium phosphate process line, granular triple superphosphate process line, or granular triple superphosphate storage building. The owner or operator shall conduct the performance test according to the procedures in subpart A of this part and in this section.

(2) As required by § 63.7(a)(2) and once per annum thereafter, each owner or operator of a phosphate fertilizers production plant subject to the provisions of this subpart shall conduct a performance test to demonstrate compliance with the applicable emission standard for each new diammonium and/or monoammonium phosphate process line, granular triple superphosphate process line, or granular triple superphosphate storage building. The owner or operator shall conduct the performance test according to the procedures in subpart A of this part and in this section.

(b) In conducting performance tests, each owner or operator of an affected source shall use as reference methods and procedures the test methods in 40 CFR Part 60, Appendix A, or other methods and procedures as specified in this section, except as provided in § 63.7(f).

(c) Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line or granular triple superphosphate process line shall determine compliance with the applicable total fluorides standards in § 63.622 or § 63.623 as follows:

(1) The emission rate (E) of total fluorides shall be computed for each run using the following equation:

$$E = \frac{N}{\sum_{i=1} C_{si} Q_{sdi}} / (PK)$$

where:

E = emission rate of total fluorides, g/metric ton (lb/ton) of equivalent P<sub>2</sub>O<sub>5</sub> feed.

C<sub>si</sub> = concentration of total fluorides from emission point "i," mg/dscm (mg/dscf).

Q<sub>sdi</sub> = volumetric flow rate of effluent gas from emission point "i," dscm/hr (dscf/hr).

N = number of emission points associated with the affected facility.

P = equivalent P<sub>2</sub>O<sub>5</sub> feed rate, metric ton/hr (ton/hr).

K = conversion factor, 1000 mg/g (453,600 mg/lb).

(2) Method 13A or 13B (40 CFR part 60, appendix A) shall be used to determine the total fluorides concentration ( $C_{si}$ ) and volumetric flow rate ( $Q_{sdi}$ ) of the effluent gas from each of the emission points. If Method 13 B is used, the fusion of the filtered material described in section 7.3.1.2 and the distillation of suitable aliquots of containers 1 and 2, described in sections 7.3.3 and 7.3.4 in Method 13 A, may be omitted. The sampling time and sample volume for each run shall be at least one hour and 0.85 dscm (30 dscf).

(3) The equivalent  $P_2O_5$  feed rate (P) shall be computed using the following equation:

$$P = M_p R_p$$

where:

$M_p$  = total mass flow rate of phosphorus-bearing feed, metric ton/hr (ton/hr).

$R_p$  =  $P_2O_5$  content, decimal fraction.

(i) The accountability system described in § 63.625(a) and (b) shall be used to determine the mass flow rate ( $M_p$ ) of the phosphorus-bearing feed.

(ii) The  $P_2O_5$  content ( $R_p$ ) of the feed shall be determined using as appropriate the following methods (incorporated by reference- see 40 CFR 63.14) specified in the Book of Methods Used and Adopted By The Association Of Florida Phosphate Chemists, Seventh Edition 1991, where applicable:

(A) Section IX, Methods of Analysis For Phosphate Rock, No. 1 Preparation of Sample.

(B) Section IX, Methods of Analysis For Phosphate Rock, No. 3 Phosphorus- $P_2O_5$  or  $Ca_3(PO_4)_2$ , Method A-Volumetric Method.

(C) Section IX, Methods of Analysis For Phosphate Rock, No. 3 Phosphorus- $P_2O_5$  or  $Ca_3(PO_4)_2$ , Method B-Gravimetric Quimociac Method.

(D) Section IX, Methods of Analysis For Phosphate Rock, No. 3 Phosphorus- $P_2O_5$  or  $Ca_3(PO_4)_2$ , Method C-Spectrophotometric Method.

(E) Section XI, Methods of Analysis For Phosphoric Acid, Superphosphate, Triple superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus- $P_2O_5$ , Method A-Volumetric Method.

(F) Section XI, Methods of Analysis For Phosphoric Acid, Superphosphate, Triple superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus- $P_2O_5$ , Method B-Gravimetric Quimociac Method.

(G) Section XI, Methods of Analysis For Phosphoric Acid, Superphosphate, Triple superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus- $P_2O_5$ , Method C-Spectrophotometric Method.

(4) 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).

(d) Each owner or operator of a new or existing granular triple superphosphate storage building shall determine compliance with the applicable total fluorides standards in § 63.622 or § 63.623 as follows:

(1) The owner or operator shall conduct performance tests only when the following quantities of product are being cured or stored in the facility.

and (i) Total granular triple superphosphate is at least 10 percent of the building capacity,

(ii) Fresh granular triple superphosphate is at least six percent of the total amount of granular triple superphosphate, or

(iii) If the provision in paragraph (d)(1)(ii) of this sub-section exceeds production capabilities for fresh granular triple superphosphate, fresh granular triple superphosphate is equal to at least 5 days maximum production.

(2) In conducting the performance test, the owner or operator shall use as reference methods and procedures the test methods in Part 60, Appendix A, or other methods and procedures as specified in this section, except as provided in § 63.7(f).

(3) The owner or operator shall determine compliance with the total fluorides standard in §§ 63.622 and 63.623 as follows:

(i) The emission rate (E) of total fluorides shall be computed for each run using the following equation:

$$E = \frac{N}{\sum_{i=1} C_{si} Q_{sdi}} / (PK)$$

where:

E = emission rate of total fluorides, g/hr/metric ton (lb/hr/ton) of equivalent P<sub>2</sub>O<sub>5</sub> stored.

C<sub>si</sub> = concentration of total fluorides from emission point "i," mg/dscm (mg/dscf).

Q<sub>sdi</sub> = volumetric flow rate of effluent gas from emission point "i," dscm/hr (dscf/hr).

N = number of emission points in the affected facility.

P = equivalent P<sub>2</sub>O<sub>5</sub> stored, metric tons (tons).

K = conversion factor, 1000 mg/g (453,600 mg/lb).

(ii) Method 13A or 13B (40 CFR part 60, appendix A) shall be used to determine the total fluorides concentration (C<sub>si</sub>) and volumetric flow rate (Q<sub>sdi</sub>) of the effluent gas from each of the emission points. If Method 13B is used, the fusion of the filtered material described in section 7.3.1.2 and the distillation of suitable aliquots of containers 1 and 2, described in Sections 7.3.3 and 7.3.4 in Method 13 A, may be omitted. The sampling time and sample volume for each run shall be at least one hour and 0.85 dscm (30 dscf).

(iii) The equivalent P<sub>2</sub>O<sub>5</sub> feed rate (P) shall be computed using the following equation:

$$P = M_p R_p$$

where:

M<sub>p</sub> = amount of product in storage, metric ton (ton).

R<sub>p</sub> = P<sub>2</sub>O<sub>5</sub> content of product in storage, weight fraction.

(iv) The accountability system described in § 63.625(d) and (e) shall be used to determine the amount of product (M<sub>p</sub>) in storage.

(v) The P<sub>2</sub>O<sub>5</sub> content (R<sub>p</sub>) of the product stored shall be determined using as appropriate the following methods (incorporated by reference- see 40 CFR 63.14) specified in the Book of Methods Used and Adopted By The Association Of Florida Phosphate Chemists, Seventh Edition 1991, where applicable:

(A) Section XI, Methods of Analysis For Phosphoric Acid, Superphosphate, Triple superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus-P<sub>2</sub>O<sub>5</sub>, Method A- Volumetric Method.

(B) Section XI, Methods of Analysis For Phosphoric Acid, Superphosphate, Triple superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus-P<sub>2</sub>O<sub>5</sub>, Method B-Gravimetric Quimociac Method.

(C) Section XI, Methods of Analysis For Phosphoric Acid, Superphosphate, Triple superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus-P<sub>2</sub>O<sub>5</sub>, Method C-Spectrophotometric Method, or,

(vi) The P<sub>2</sub>O<sub>5</sub> content (R<sub>p</sub>) of the product stored shall be determined using as appropriate the following methods (incorporated by reference- see 40 CFR 63.14) specified in the Official Methods of Analysis of AOAC International, sixteenth Edition, 1995, where applicable:

(A) AOAC Official Method 957.02 Phosphorus (Total) In Fertilizers, Preparation of Sample.

(B) AOAC Official Method 929.01 Sampling of Solid Fertilizers.

(C) AOAC Official Method 929.02 Preparation of Fertilizer Sample.

(D) AOAC Official Method 978.01 Phosphorus (Total) In Fertilizers, Automated Method.

(E) AOAC Official Method 969.02 Phosphorus (Total) In Fertilizers, Alkalimetric Quinolinium Molybdophosphate Method.

(F) AOAC Official Method 962.02 Phosphorus (Total) In Fertilizers, Gravimetric Quinolinium Molybdophosphate Method.

(G) AOAC Official Method 958.01 Phosphorus (Total) in Fertilizer, Spectrophotometric Molybdovanadophosphate Method.

(4) To comply with § 63.625(f)(1) or (2), the owner or operator shall use the monitoring systems described 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).

#### NOTIFICATION, REPORTING AND RECORDKEEPING

##### § 63.627 Notification, recordkeeping, and reporting requirements.

(a) Each owner or operator subject to the requirements of this subpart shall comply with the notification requirements in § 63.9.

(b) Each owner or operator subject to the requirements of this subpart shall comply with the recordkeeping requirements in § 63.10.

(c) The owner or operator of an affected source shall comply with the reporting requirements specified in § 63.10 as follows:

(1) Performance test report. As required by § 63.10, the owner or operator shall report the results of the initial and annual performance tests as part of the notification of compliance status required in § 63.9.

(2) Excess emissions report. As required by § 63.10, the owner or operator of an affected source shall submit an excess emissions report for any exceedance of an operating parameter limit. The report shall contain the information specified in § 63.10. When no exceedances of an operating parameter have occurred, such information shall be included in the report. The report shall be submitted semiannually and shall be delivered or postmarked by the 30th day following the end of the calendar half. If exceedances are reported, the owner or operator shall report quarterly until a request to reduce reporting frequency is approved as described in § 63.10.

(3) Summary report. If the total duration of control system exceedances for the reporting period is less than 1 percent of the total operating time for the reporting period, the owner or operator

shall submit a summary report containing the information specified in § 63.10 rather than the full excess emissions report, unless required by the Administrator. The summary report shall be submitted semiannually and shall be delivered or postmarked by the 30th day following the end of the calendar half.

(4) If the total duration of control system operating parameter exceedances for the reporting period is 1 percent or greater of the total operating time for the reporting period, the owner or operator shall submit a summary report and the excess emissions report.

#### **§ 63.628 Applicability of general provisions.**

The requirements of the general provisions in subpart A of this part that are applicable to the owner or operator subject to the requirements of this subpart are shown in appendix A to this subpart.

#### **§ 63.629 Miscellaneous requirements.**

The Administrator retains the authority to approve site-specific test plans for uncontrolled granular triple superphosphate storage buildings developed pursuant to § 63.7(c)(2)(i).

#### **§ 63.630 Compliance dates.**

(a) Each owner or operator of an existing affected source at a phosphate fertilizers production plant shall achieve compliance with the requirements of this subpart no later than June 10, 2002. Notwithstanding the requirements of § 63.7(a)(2)(iii), each owner or operator of an existing affected source at a phosphate fertilizers production plant shall fulfill the applicable requirements of § 63.626 no later than June 10, 2002.

(b) Each owner or operator of a phosphate fertilizers production plant that commences construction or reconstruction of an affected source after December 27, 1996 shall achieve compliance with the requirements of this subpart upon startup of operations or by June 10, 1999, whichever is later.

(c) The owner or operator of any existing uncontrolled granular triple superphosphate storage building subject to the provisions of this subpart shall submit for approval by the Administrator a site-specific test plan for each such building according to the provisions of § 63.7 (b)(2)(i) no later than June 12, 2000.

#### **OTHER**

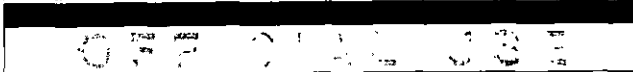
#### **§ 63.631 Exemption from new source performance standards.**

Any affected source subject to the provisions of this subpart is exempted from any otherwise applicable new source performance standard contained in 40 CFR Part 60, subpart V, subpart W, or subpart X. To be exempt, a source must have a current operating permit pursuant to Title V of the Act and the source must be in compliance with all requirements of this subpart. For each affected source, this exemption is effective upon the date that the owner or operator demonstrates to the Administrator that the requirements of §§ 63.624, 63.625 and 63.626 have been met.



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