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JUN 16 2004

BUREAU OF AIR REGULATION

**TITLE V RENEWAL AND
REVISION APPLICATION**

***CARGILL FERTILIZER, LLC
BARTOW, FLORIDA***

Prepared for:

**Cargill Fertilizer, Inc.
3200 Highway 60 West
Bartow, FL 33830**

Prepared by:

**Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500**

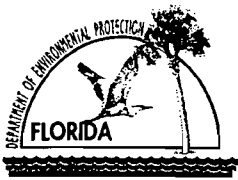
**June 2004
0437582**

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1 Copy – Golder Associates Inc.



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

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

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

Air Operation Permit – Use this form to apply for:

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

Air Construction Permit & Revised/Renewal Title V Air Operation Permit (Concurrent Processing Option)

– Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Cargill Fertilizer, LLC	
2. Site Name: Bartow Facility	
3. Facility Identification Number: 1050046	
4. Facility Location...: Street Address or Other Locator: 3200 Highway 60 West City: Bartow County: Polk Zip Code: 33830	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Application Contact Name: Debra Waters, Environmental Superintendent	
2. Application Contact Mailing Address... Organization/Firm: Cargill Fertilizer, LLC Street Address: P.O. Box 9002 City: Bartow State: FL Zip Code: 33831	
3. Application Contact Telephone Numbers... Telephone: (863) 534-9615 ext. Fax: (863) 534-9684	
4. Application Contact Email Address: debbie_waters@cargill.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Project Number(s):	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

APPLICATION INFORMATION

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit

☐ Air construction permit.

Air Operation Permit

☐ Initial Title V air operation permit.

☒ Title V air operation permit revision.

☒ Title V air operation permit renewal.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

☐ Air construction permit and Title V permit revision, incorporating the proposed project.

☐ Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

☐ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Application is for renewal and revision of Permit No. 1050046-003-AV and incorporation of Permit No. 1050048-001-AV (Cargill Mulberry) into Permit No. 1050046-003-AV.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
001	No. 3 Fertilizer Plant		
002	No. 4 Fertilizer Shipping Plant		
004	No. 3 Fertilizer Shipping Plant		
010	Phosphoric Acid Plant		
012, 032, 033	Sulfuric Acid Plant Nos. 4, 5, and 6		
021	No. 4 Fertilizer Plant		
045, 046, 047, 050, TBD	Molten Sulfur Handling & Storage		
051	Package Watertube Boiler		
052	Phosphogypsum Stack (current Bartow facility only)		
053	Unregulated Emissions		
TBD	No. 3 Sulfuric Acid Plant		
TBD	Auxiliary Boiler		

Application Processing Fee

Check one: ☐ Attached - Amount: \$ _____

☒ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

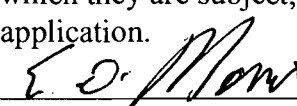
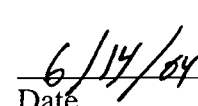
Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name :
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Owner/Authorized Representative Telephone Numbers... Telephone: () - ext. Fax: () -
4. Owner/Authorized Representative Email Address:
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.</i> _____ Signature _____ Date

APPLICATION INFORMATION

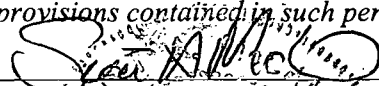
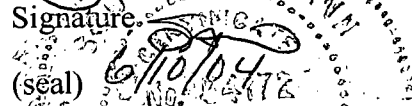
Application Responsible Official Certification

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

1. Application Responsible Official Name: Mr. E. O. Morris, Vice President
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Cargill Fertilizer, LLC Street Address: 8813 Highway 41 South City: Riverview State: FL Zip Code: 33569
4. Application Responsible Official Telephone Numbers... Telephone: (813) 671-6158 ext. Fax: (813) 671-6149
5. Application Responsible Official Email Address: ozzie_morris@cargill.com
6. Application Responsible Official Certification: I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.  Signature  Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Scott A. McCann Registration Number: 54172
2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc.** Street Address: 6241 NW 23rd Street, Suite 500 City: Gainesville State: FL Zip Code: 32653-1500
3. Professional Engineer Telephone Numbers... Telephone: (352) 336-5600 ext. 543 Fax: (352) 336-6603
4. Professional Engineer Email Address: scott_mccann@golder.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input checked="" type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input checked="" type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> Signature:  Date: <u>6/10/04</u> (seal) 

* Attach any exception to certification statement.

** Board of Professional Engineers Certificate of Authorization #00001670

FACILITY INFORMATION

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 409.8 North (km) 3086.7		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 27/54/22 Longitude (DD/MM/SS) 81/54/59	
3. Governmental Facility Code: O	4. Facility Status Code: A	5. Facility Major Group SIC Code: 28	6. Facility SIC(s): 2874 2819
7. Facility Comment : Cargill is requesting to incorporate the Cargill Mulberry facility with the Cargill Bartow facility. The emission units will operate as one facility under the name Cargill Bartow.			

Facility Contact

1. Facility Contact Name: Debra Waters, Environmental Superintendent		
2. Facility Contact Mailing Address... Organization/Firm: Cargill Fertilizer, LLC Street Address: P.O. Box 9002 City: Bartow State: FL Zip Code: 33831		
3. Facility Contact Telephone Numbers: Telephone: (863) 534-9615 ext. Fax: (863) 534-9684		
4. Facility Contact Email Address: debbie_waters@cargill.com		

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:		
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:		
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -		
4. Facility Primary Responsible Official Email Address:		

FACILITY INFORMATION

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

FACILITY INFORMATION**B. EMISSIONS CAPS****Facility-Wide or Multi-Unit Emissions Caps**

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

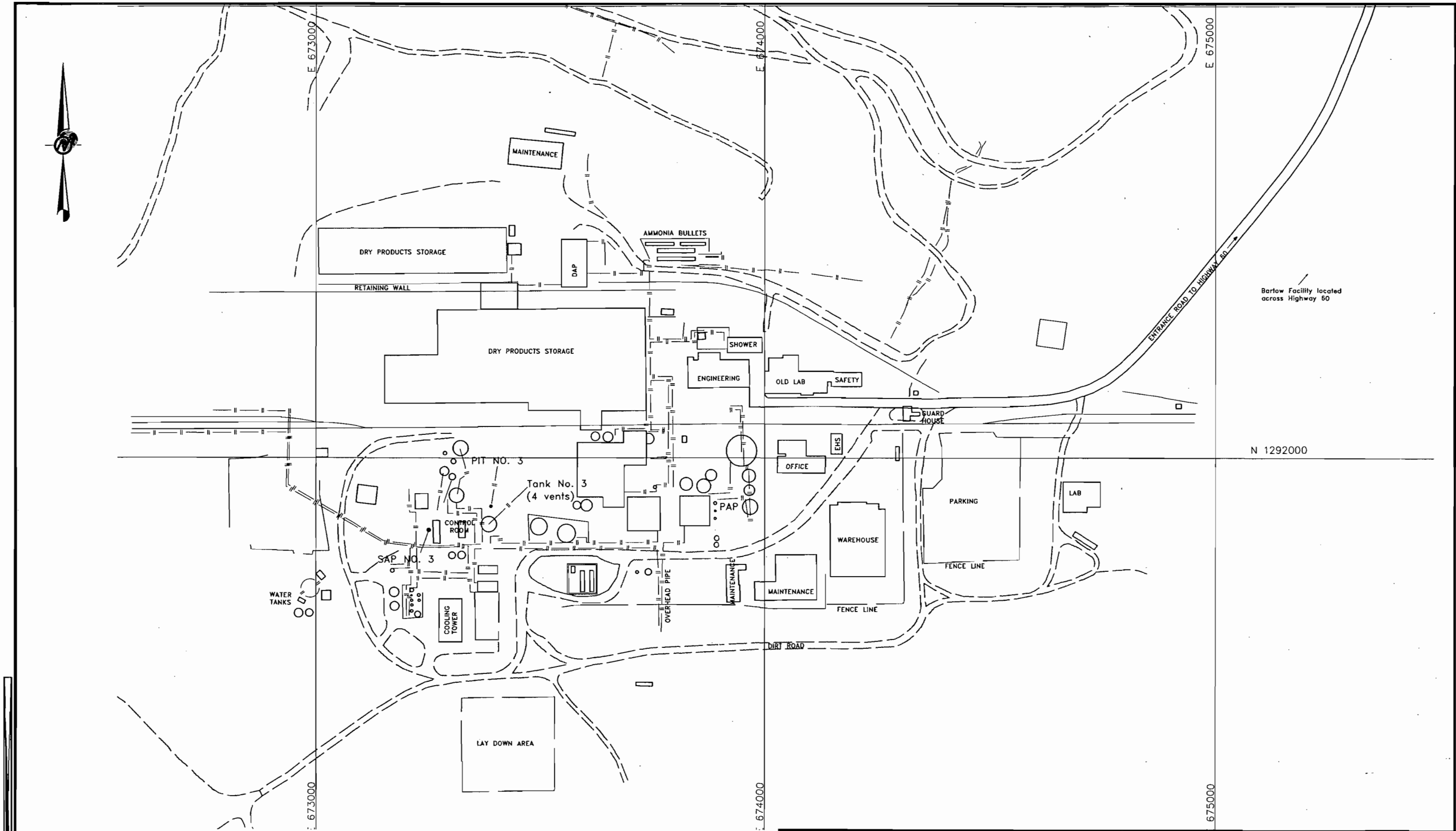
1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-FI-C1 <input type="checkbox"/> Previously Submitted, Date: _____
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-FI-C2 <input type="checkbox"/> Previously Submitted, Date: _____
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: 4/2/03

Additional Requirements for Air Construction Permit Applications

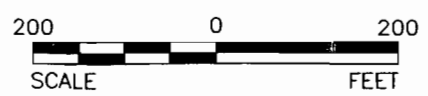
1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction or Modification: <input type="checkbox"/> Attached, Document ID: _____
3. Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____
4. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Ambient Impact Analysis (Rule 62-212.400(5)(d), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(5)(h)5., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(5)(e)1. and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable


ATTACHMENT CB-FI-C1

FACILITY PLOT PLAN



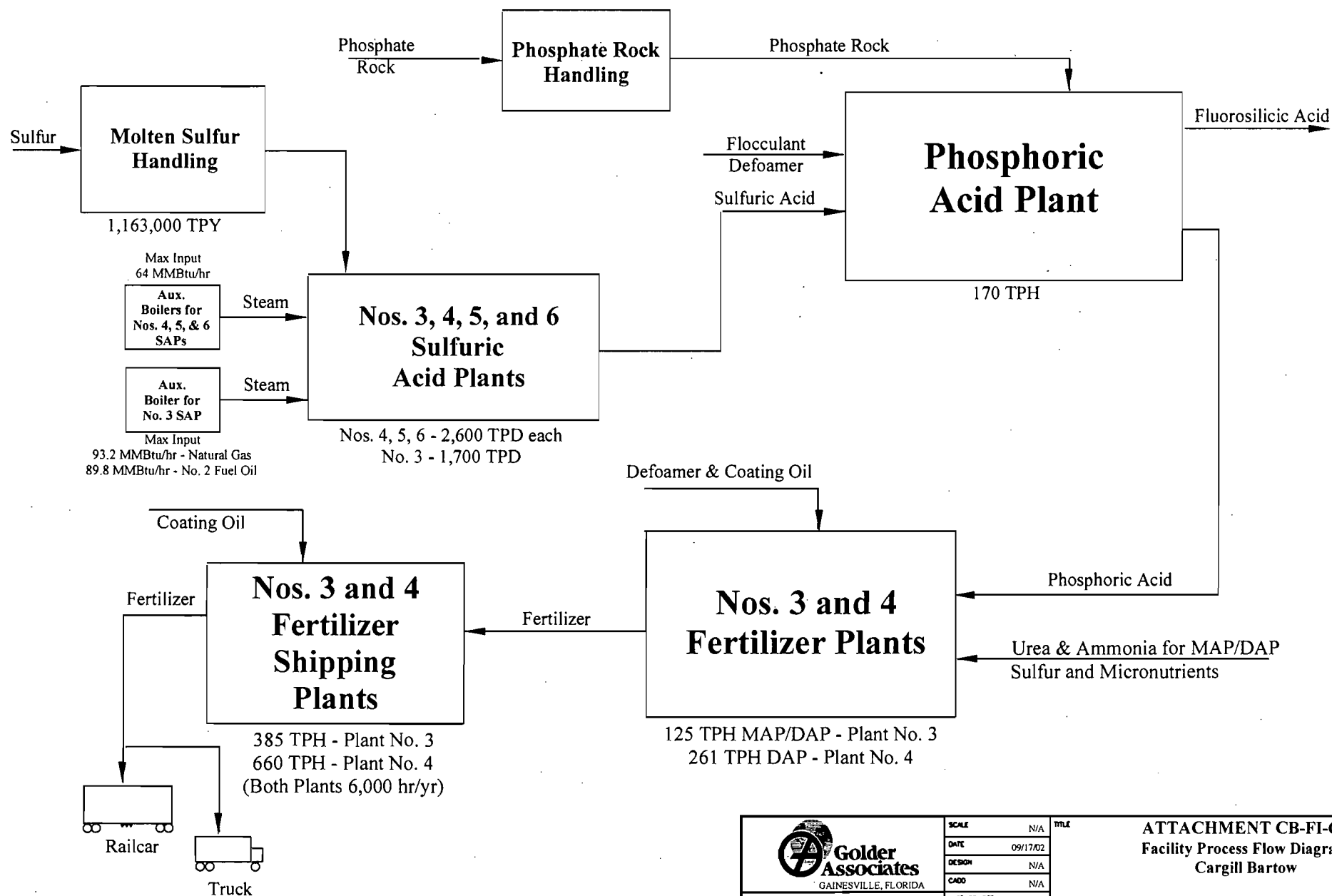
Barlow Facility located across Highway 60




 Golder Associates GAINESVILLE, FL		SCALE	TITLE ATTACHMENT CB-FI-C1b FACILITY PLOT PLAN SOUTHWESTERN PORTION OF PROPERTY (FORMERLY CARGILL MULBERRY)	
		DATE 05/28/2004		
		DESIGN		
		CADD		
FILE No.	CB-FI-C1B.DWG	CHECK	CARGILL BARTOW	
PROJECT No.	0437582-0100	REV. REV		
		REVIEW	DWG/FIG_SETTING	

ATTACHMENT CB-FI-C2

FACILITY PROCESS FLOW DIAGRAM



 Golder Associates GAINESVILLE, FLORIDA			SCALE	N/A	TITLE ATTACHMENT CB-FI-C2 Facility Process Flow Diagram Cargill Bartow	
			DATE	09/17/02		
			DESIGN	N/A		
			CADD	N/A		
			LAST REVISED	JKW		
FILE Name:			PATH			
PROJECT No.	0437582-0100	REV.	1	REVIEW	SAM	0437582\414.4\CB-FI-C2.dwg

ATTACHMENT CB-FI-CV1

LIST OF INSIGNIFICANT ACTIVITIES

ATTACHMENT CB-FI-CV1**LIST OF ACTIVITIES THAT MAY BE TREATED AS "TRIVIAL"**

The following types of activities and emissions units may be presumptively omitted from part 70 permit applications. Certain of these listed activities include qualifying statements intended to exclude many similar activities.

Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.

Air-conditioning units used for human comfort that do not have applicable requirements under title VI of the Act.

Ventilating units used for human comfort that do not exhaust air pollutants into the ambient air from any manufacturing/industrial or commercial process.

Non-commercial food preparation.

Consumer use of office equipment and products, not including printers or businesses primarily involved in photographic reproduction.

Janitorial services and consumer use of janitorial products.

Internal combustion engines used for landscaping purposes.

~~Laundry activities, except for dry cleaning and steam boilers.~~

Bathroom/toilet vent emissions.

Emergency (backup) electrical generators at residential locations.

Tobacco smoking rooms and areas.

~~Blacksmith forges.~~

Plant maintenance and upkeep activities (e.g., groundskeeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification.¹

Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.

Portable electrical generators that can be moved by hand from one location to another².

Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.

Brazing, soldering and welding equipment, and cutting torches related to manufacturing and construction activities that do not result in emission of HAP metals.³

Air compressors and pneumatically operated equipment, including hand tools.

¹ Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise required.

² "Moved by hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.

³ Brazing, soldering and welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals are more appropriate for treatment as insignificant activities based on size or production level thresholds. Brazing, soldering, welding and cutting torches directly related to plant maintenance and upkeep and repair or maintenance shop activities that emit HAP metals are treated as trivial and listed separately in this appendix.

Batteries and battery charging stations, except at battery manufacturing plants.

Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP.⁴

~~Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.~~

~~Equipment used to mix and package, soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.~~

~~Drop hammers or hydraulic presses for forging or metalworking.~~

~~Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.~~

Vents from continuous emissions monitors and other analyzers.

Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.

Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.

Equipment used for surface coating, painting, dipping or spraying operations, except those that will emit VOC or HAP.

CO₂ lasers, used only on metals and other materials which do not emit HAP in the process.

Consumer use of paper trimmers/binders.

~~Electric or steam heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.~~

~~Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants.~~

⁴ Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.

~~Laser trimmers using dust collection to prevent fugitive emissions.~~

Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents.

Routine calibration and maintenance of laboratory equipment or other analytical instruments.

Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.

~~Hydraulic and hydrostatic testing equipment.~~

~~Environmental chambers not using hazardous air pollutant (HAP) gasses.~~

~~Shock chambers.~~

~~Humidity chambers.~~

~~Solar simulators.~~

Fugitive emission related to movement of passenger vehicles, provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.

Process water filtration systems and demineralizes.

Demineralized water tanks and demineralizer vents.

Boiler water treatment operations, not including cooling towers.

~~Oxygen scavenging (de-aeration) of water.~~

~~Ozone generators.~~

Fire suppression systems.

Emergency road flares.

Steam vents and safety relief valves.

Steam leaks.

~~Steam cleaning operations.~~

~~Steam sterilizers.~~

ATTACHMENT CB-FI-CV2

IDENTIFICATION OF APPLICABLE REQUIREMENTS

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF ADMINISTRATIVELY CORRECTED TITLE V AIR OPERATION PERMIT

In the Matter of a Request for Administrative Correction:

Mr. E.O. Morris
Vice President
Cargill Fertilizer, Inc.
8813 US Highway 41 South
Riverview, FL 33569

Project No.: 1050048-003-AV
Administrative Correction to Permit No. 1050048-001-AV
Cargill Mulberry Facility
Polk County

Enclosed is an ADMINISTRATIVELY CORRECTED page to the Title V Air Operation Permit, No. 1050048-001-AV, for the operation of the Cargill Mulberry Facility located at 4000 Highway 60 East, Mulberry, Polk County. This correction is issued pursuant to Rule 62-210.360, Florida Administrative Code, and Chapter 403, Florida Statutes (F.S.). This change is made per the Application for Transfer of Air Permit dated July 15, 2002. This corrective action does not alter the effective dates of the existing permit.

Any party to this order (permit) has the right to seek judicial review of it under Section 120.68, F.S., by the filing of a Notice of Appeal, under Rule 9.110 of the Florida Rules of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000 and, by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this notice is filed with the clerk of the permitting authority.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Gerald J. Kissel, P.E.
District Air Program Administrator

ADMINISTRATIVE CORRECTION

Project No.: 1050048-003-AV

Administrative Correction to Title V Air Operation Permit No. 1050048-001-AV

Cargill Mulberry Facility

Polk County

Page 2 of 3

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF ADMINISTRATIVELY CORRECTED PERMIT (including the corrected page(s)) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on _____ to the person(s) listed or as otherwise noted:

Mr. E.O. Morris, Cargill *

Ms. Deborah Waters, Cargill

Mr. Scott Sheplak, DEP-BAR (INTERNET E-mail Memorandum)

Ms. Gracy Danois, U.S. EPA, Region 4 (INTERNET E-mail Memorandum)

Mr. Gregg Worley, U.S. EPA, Region 4 (INTERNET E-mail Memorandum)

Clerk Stamp

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52(7),
Florida Statutes, with the designated
Department Clerk, receipt of which is hereby
acknowledged.

(Clerk)

(Date)

ADMINISTRATIVE CORRECTION

Project No.: 1050048-003-AV

Administrative Correction to Title V Air Operation Permit No. 1050048-001-AV

Cargill Mulberry Facility

Polk County

Page 3 of 3

The Permittee is hereby changed:

FROM:

Mulberry Phosphates, Inc.

Post Office Drawer 797

Mulberry, FL 33860

Responsible Official: Mr. Robert Stewart, Vice President Operations & Administration

TO:

Cargill Fertilizer, Inc.

8813 US Highway 41 South

Riverview, FL 33569

Responsible Official: Mr. E.O. Morris, Vice President

The Facility Owner/Company Name is hereby changed:

FROM:

Mulberry Phosphates, Inc.

TO:

Cargill Fertilizer, Inc.

The Site Name is hereby changed:

FROM:

Mulberry Phosphate Fertilizer Complex

TO:

Cargill Mulberry Facility

NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Mr. Robert Stewart, Vice President
Operations & Administration
Mulberry Phosphates, Incorporated
Post Office Drawer 797
Mulberry, FL 33860

FINAL Permit No.: 1050048-001-AV

Dear Mr. Stewart:

Enclosed is FINAL Permit Number 1050048-001-AV for the Mulberry Phosphate Fertilizer Complex, located at State Road 60, East of Mulberry, Mulberry, Polk County, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the permitting authority in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the permitting authority.

Executed in Tampa, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

**Deborah A. Getzoff
Director of District Management
Southwest District**

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT (including the FINAL permit) and all copies were sent by certified mail before the close of business on _____ to the person(s) listed:

Mr. Robert Stewart, Mulberry Phosphates, Inc.

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of this NOTICE OF FINAL PERMIT (including the FINAL permit) were sent by U.S. mail on the same date to the person(s) listed, unless otherwise noted:

Mr. John Koogler, Ph.D., P.E., Koogler & Associates

Mr. Gregg Worley, U.S. EPA, Region 4 (INTERNET E-mail Memorandum)

Ms. Barbara Boutwell, Bureau of Air Regulation (e-mailed by permit engineer)

Ms. Mary Fillingim, Bureau of Air Regulation (e-mailed by permit engineer)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to Section 120.52(7), Florida
Statutes, with the designated agency Clerk, receipt
of which is hereby acknowledged.

(Clerk)

(Date)

Mulberry Phosphates, Inc.
Mulberry Phosphate Fertilizer Complex
Facility ID No.: 1050048
Polk County

Initial Title V Air Operation Permit
FINAL Permit No.: 1050048-001-AV

Permitting Authority:
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619
Telephone: 813-744-6100
Fax: 813-744-6458

Mulberry Phosphates, Inc.

Initial Title V Air Operation Permit
FINAL Permit No.: 1050048-001-AV

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Appendices and attachments listed in sequence as attached:

- * *Memorandum of Understanding Regarding Best Operational Start-up Practices for Sulfuric Acid Plants.* [Signed on October 24, 1989 and re-affirmed in a letter dated August 26, 1991].
- * Appendix U-1, List of Unregulated Emissions Units and/or Activities
- * Appendix I-1, List of Insignificant Emission Units and/or Activities
- * Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
- * Appendix H-1, Permit History/ID Number Changes
- * Appendix TV-3, TITLE V CONDITIONS (version dated 4/30/99)
- * Appendix SS-1, STACK SAMPLING FACILITIES (version dated 10/7/96)
- * TABLE 297.310-1, CALIBRATION SCHEDULE (version dated 10/07/96)
- * FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS EMISSION MONITORING SYSTEM PERFORMANCE REPORT (version dated 1/23/97)
- * TABLE 1-1, SUMMARY OF AIR POLLUTANT STANDARDS AND TERMS

* TABLE 2-1, SUMMARY OF COMPLIANCE REQUIREMENTS

Permittee:
Mulberry Phosphates, Inc
Post Office Drawer 797
Mulberry, FL, 33860

FINAL Permit No.: 1050048-001-AV
SIC No.: 2874
Project: Initial Title V Air Operation Permit
Facility ID No.: 1050048

This permit is for the operation of the Mulberry Phosphate Fertilizer Complex. This facility is located at State Road 60, East of Mulberry, Mulberry, Polk County; **UTM Coordinates:** Zone 17- 406.8 km East and 3085.1 km North; Latitude: 27° 53' 15" North and Longitude: 81° 56' 50" West.

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

Appendices and attachments listed in sequence as attached:

- * *Memorandum of Understanding Regarding Best Operational Start-up Practices for Sulfuric Acid Plants.*
[Signed on October 24, 1989 and re-affirmed in a letter dated August 26, 1991].
- * Appendix U-1, List of Unregulated Emissions Units and/or Activities
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- * TABLE 2-1, SUMMARY OF COMPLIANCE REQUIREMENTS

Effective Date: December 13, 1999
Renewal Application Due Date: June 13, 2004
Expiration Date: December 13, 2004

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Deborah A Getzoff
Director of District Management

Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of several industrial processes which convert insoluble rock containing phosphorus ore into a soluble form suitable for agricultural use. If one were to break down the operation into logical segments, the following activities are undertaken to produce fertilizer with phosphorus and nitrogen values.

1. Wet phosphate rock delivered by railcar or truck is unloaded, conveyed to storage, and ground by rotary ball mills.
2. Molten sulfur is burned under controlled stoichiometry to produce sulfuric acid.
3. Ground phosphate rock is acidulated with sulfuric acid, producing wet process phosphoric acid and byproduct calcium sulfate (gypsum) with release of fluoride compounds, including HF.
4. The phosphoric acid, which is approximately 30% phosphorus (by weight expressed as P_2O_5) is sent to evaporators for concentration to approximately 46% acid.
5. Granulated fertilizers are produced by combining phosphoric acid and ammonia in various mole ratios to produce monoammonium phosphate (MAP) or diammonium phosphate (DAP).
6. Granulated products are conveyed to dry storage by trip conveyor, dropped to storage piles, and taken by payloader as needed to a hopper and elevator system to weigh/storage bins for top-loading of railcars or trucks.

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

Based on the initial Title V permit application received June 13, 1996, this facility is a major source of hazardous air pollutants (HAPs).

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

E.U.

<u>ID No.</u>	<u>Brief Description</u>
002	Double Absorption Sulfuric Acid Plant
003	Prayon Phosphoric Acid Plant (North Scrubber)
005	Monoammonium Phosphate (MAP) Plant/Diammonium Phosphate (DAP) Plant
009	Process Steam Boiler
010	Prayon Phosphoric Acid Plant (South Scrubber)
011	Molten Sulfur Storage/Handling - Truck Delivery Pit
012	Molten Sulfur Storage/Handling - Railcar Delivery Pit
013	Molten Sulfur Storage/Handling - Storage Tank
014	Molten Sulfur Storage/Handling - Storage Tank
015	Molten Sulfur Storage/Handling - Storage Tank
016	Molten Sulfur Storage/Handling - Storage Tank
019	Phosphogypsum Storage

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

Subsection C. Relevant Documents.

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

These attached documents are provided information purposes only:

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

Table 2-1, Summary of Compliance Requirements

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

Appendix H-1, Permit History/ID Number Changes

These documents are on file with permitting authority:

Initial Title V Permit Application received June 13, 1996

Additional Information Request dated August 27, 1997

Additional Information Response received December 1, 1997

Application Update Information received April 13, 1998

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-3, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-3, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.}
2. Not federally enforceable. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
3. Prevention of Accidental Releases (Section 112(r) of CAA). If required by 40 CFR 68, the permittee shall submit to the implementing agency:
 - a. a risk management plan (RMP) when, and if, such requirement becomes applicable; and
 - b. certification forms and/or RMPs according to the promulgated rule schedule.[40 CFR 68]
4. Unregulated and Insignificant Emissions Units and/or Activities. Appendices U-1, List of Unregulated Emissions Units and/or Activities, and Appendix I-1, List of Insignificant Emission Units and/or Activities, are a part of this permit.
[Rule 62-213.440(1), F.A.C.]
5. General Particulate Emission Limiting Standards. General Visible Emissions Standard. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity).
[Rule 62-296.320(4)(b)1., F.A.C.]
6. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter. These provisions are applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. These precautions shall include good work practices such as the use of water to keep roadways and work areas damp to control dust and windborne emissions.
[Rule 62-296.320(4)(c)2., F.A.C.]

7. The requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., Stationary Sources - Emission Monitoring and 40 CFR 60, Appendix A. [Rule 62-297.401, F.A.C.]

8. Testing of emissions must be conducted within 90-100% of the maximum permitted material input rate, permitted heat input rate, or permitted production rate of product, whichever applies. A compliance test submitted at a rate less than 90% of the maximum permitted material input rate, permitted heat input rate, or permitted production rate of product will automatically constitute an amended permit rate at that lesser rate plus 10%. Within 30 days of that lower amended permitted material input rate, permitted heat input rate, or permitted production rate of product, whichever applies, being exceeded by more than 10%, a new compliance test shall be conducted at the higher rate. The test results shall be submitted to the Southwest District Office of the Department within 45 days of testing. Acceptance of the test by the Department will automatically constitute an amended permit at the higher tested rate plus 10%, but in no case shall the maximum permitted material input rate, permitted heat input rate, or permitted production rate of product be exceeded. Where applicable and available, the minimum following operating parameters shall be recorded during the test period:

A. Scrubbers

- (1) Process gas temperature and pressure drop through the control system.
- (2) Scrubber liquid flow rate, temperature, and pressure.
- (3) Venturi pressure drop (where applicable).
- (4) Induced and/or forced draft fan amperage.

B. Baghouse Dust Collectors

- (1) Process gas temperature and pressure drop through the control system.
- (2) Bag cleaning method and sequence.

C. Electrostatic Precipitators (ESP)

- (1) Field primary and secondary amperage and voltage.
- (2) Field spark rate.
- (3) Field rapping sequence.
- (4) Induced and/or forced draft fan amperage.

D. Pneumatic Cyclone Separators

- (1) Process gas temperature and pressure drop through the control system.
- (2) Process gas velocity.
- (3) Induced and/or forced draft fan amperage.

Failure to submit applicable control system and process parameters, including production rate, with the test report may invalidate the tests and fail to provide reasonable assurance of compliance. [Rule 62-213.440(1)(b), F.A.C.]

Permitting Note: Compliance test dates are for planning purposes only. Rule 62-297.310(7), F.A.C., requires that the owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test must do so during each federal fiscal year (October 1 — September 30).

9. In order to provide reasonable assurance that the air pollution control systems are operating properly, control system parameters specified in Condition No. 8 shall not fall below 90% of the rate/value reported during the most recent satisfactory compliance test, following the final issuance of this permit.

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

PERMITTING NOTE: It shall not be considered a violation if the monitored parameter falls below the 90% value if another compliance test, at the same pollution control system parameters is conducted within 30 days and shows compliance. Such tests shall be conducted in accordance with the testing conditions specified for a standard compliance test as specified in the conditions within. If an additional compliance test is to be conducted, as described above, then the permittee shall submit a proposed test protocol, for approval by the Department, with the test notification. As an alternative to the minimum requirements of the 90% rate/value above, the permittee may elect to propose a test protocol, with the Department's approval, to demonstrate fixed minimum rates and operating tolerances. [Rule 62-4.070(3), F.A.C.]

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

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

11. In case of excess emissions resulting from a malfunction, the permittee shall immediately notify the Air Compliance Section of the Southwest District Office of the Department of Environmental Protection in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.

[Rule 62-210.700, F.A.C.]

12. If the Department of Environmental Protection has reason to believe that any applicable emission standard is being violated, then the Department of Environmental

Protection may require the permittee to conduct compliance tests which identify the nature and quantity of pollutant emissions and to provide a report on the results of the tests.

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

13. The permittee shall notify the Air Compliance Section of the Southwest District Office of the Department in writing at least 15 days prior to the date on which each formal compliance test is to begin. The notification will include the date, the time, and the place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. [Rules 62-297.310(7)(a)9 and 62-209.500(5), F.A.C.].

14. The permittee shall submit to the Air Compliance Section of the Southwest District Office of the Department, each calendar year, on or before March 1, a completed DEP Form 62-210.900 (5), an "Annual Operating Report for Air Pollutant Emitting Facility" (AOR), for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), F.S.:

- A. Annual amount of materials and/or fuels utilized, including the total quantity of "on-specification" used oil fired. A summary of the range of analysis values for each constituent/property referenced in the "on-specification" used oil..
- B. Annual emissions (note calculation basis);
- C. Any changes in the information contained in the permit.

The "Statement of Compliance" required to be submitted to this office and the EPA shall be submitted at the same time as the AOR (Ref. Appendix TV-1, Nos. 23 and 51).

[Rule 62-210.300(2), F.A.C.]

15. Test Reports

- A. The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Air Compliance Section of Southwest District Office of the Department on the results of each such test.
- B. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed or with the operating permit application, whichever is earlier.
- C. The report shall provide sufficient detail on the emissions unit tested (at a minimum the "Project", "Facility ID" and "Point ID"), the test procedures used to allow the Department to determine if the test report was properly conducted and the test results properly computed. Testing procedures shall be consistent with the requirements of Rule 62-297.310(7), F.A.C.
- D. The test report, other than for an EPA or DEP Method 9 test, as a minimum, shall provide the following information:
 - 1. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.

2. The normal operating parameters of air pollution control devices installed on each emission unit (e.g., pressure drop, scrubber liquid flow rate, scrubber liquid pressure, total current, etc.), and the operating parameters of air pollution control devices during each test run.

[Rules 62-297.310(8), F.A.C., and 62-4.070(3), F.A.C.]

16. Hours of Operation - Unless otherwise noted, all emission units are allowed to operate continuously, i.e., 8,760 hours/year.

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

17. At a minimum, all records and logs required by this permit shall be updated monthly. (Also reference appendix TV-3, items 12.(14) b and c, and 43.) [Rule 62-213.440(1)(b), F.A.C.]

18. Better Grade Fuel Oil

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

Better Grade (Top of list)

new, No. 2 fuel oil, or No. 2 on-specification fuel oil
new, No. 3 fuel oil, or No. 3 on-specification fuel oil
new, No. 4 fuel oil, or No. 4 on-specification fuel oil
new, No. 5 fuel oil, or No. 5 on-specification fuel oil
new, No. 6 fuel oil, or No. 6 on-specification fuel oil

19. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

{Permitting note: When quarterly reporting is specified within, this shall be interpreted to be mean calendar quarters.}

[Rule 62-213.440, F.A.C.]

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

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

Mulberry Phosphates, Inc.
Phosphate Fertilizer Complex
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Initial Title V Air Operation Permit

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

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Operating Permits Section
61 Forsyth Street
Atlanta, Georgia 30303
Telephone: 404/562-9155
Fax: 404/562-9163

22. This permit includes a "Subsection" for each emission unit which includes a description of that emission unit. That description is descriptive only and is not enforceable.

Section III. Emissions Unit(s) and Conditions.

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit. Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

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

E.U.

<u>ID No.</u>	<u>Brief Description</u>
002	Double Contact/Double Absorption Sulfuric Acid Plant

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

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

This emission unit is subject to the following specific conditions:

Essential Potential to Emit (PTE) Parameters

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

Emission Limitations and Standards

A. 2. Sulfur Dioxide. Sulfur dioxide emissions shall not exceed the lesser of:

- A. 4 pounds per ton of 100% sulfuric acid produced; or
- B. 283.3 pounds per hour.

[Rule 62-296.402(2), F.A.C., and 40 CFR 60.82(a)]

A. 3. Acid Mist. Acid mist emissions shall not exceed the lesser of:

- A. 0.15 pounds per ton of 100% acid produced; or
- B. 10.6 pounds per hour.

[Rule 62-296.402(2), F.A.C. , and 40 CFR 60.83(a)(1)]

A. 4. Visible Emissions . Visible emissions shall not be equal to or greater than 10% opacity.

[40 CFR 60.83(a)(2)]

Test Methods and Procedures

A. 5. The following EPA/DEP test methods are approved for demonstration of compliance with the above emission limitations and standards:

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

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

A. 6. Test the emissions for the following pollutant(s) annually. Submit a copy of the test data to the Air Section of the Department's Southwest District Office within 45 days of such testing:

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

The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 62-297.310, F.A.C. and 40 CFR 60, Appendix A.

[Rules 62-297.310(7) and 62-297.310(8)(b), F.A.C.]

A. 7 . Compliance with the visible emission limitation shall be demonstrated using Method 9 as specified in Rule 62-297.402(3), F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration.

The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. [Rule 62-297.310(4)(a)2., F.A.C.]

A. 8. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. In no case shall the period of excess emissions exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. In case of excess emissions resulting from malfunctions, the permittee shall notify the Department. A full written report on the malfunction(s) shall be submitted in a quarterly report, if requested by the Department. [Rules 62-4.070(3), 62-210.700(1), 62-210.700(4), 62-210.700(6), and 62-4.130, F.A.C.]

Continuous Monitoring Requirements

A. 9. The continuous emission monitoring system for the measurement and recording of stack sulfur dioxide concentration shall:

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

* Letter of June 19, 1986

Training Requirements

A. 10. Plant personnel and operators shall be familiar with best operational practices in order to (1) minimize emissions during plant shutdown and cold and hot plant startup and; (2) minimize the duration of excess emissions. [Rule 62-4.070, F.A.C.]

Recordkeeping and Reporting Requirements

A. 11. Data acquisition, data reduction, records and reporting requirements for the sulfur dioxide continuous emission monitor shall conform with 40 CFR 51, Appendix P, as adopted by reference in Rule 62-204.800(2), F.A.C.

A. 12 . The permittee shall submit a written report of excess sulfur dioxide emissions for every calendar quarter in accordance with 40 CFR 60.7(c). Periods of excess emissions shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standard under 40 CFR 60.82. Two copies of the quarterly sulfur dioxide excess emission report shall be submitted to the Department's Southwest District Office in Tampa.

[Rule 62-296.402(4), F.A.C. and 40 CFR 60.84(e).]

A. 13. This permit acknowledges that leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions that do not pass through a stack, may occur as part of routine operations. Best operational practices to minimize these emissions shall be adhered to and shall include regular inspections and the prompt repair or correction of any leaks or other fugitive emissions. [Rule 62-213.440(1)(b), F.A.C.]

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

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

E.U.

ID No. Brief Description

005 Monoammonium Phosphate Plant/Diammonium Phosphate Plant

For the operation of a 2,304 TPD phosphate plant, which operates in the mode of producing either diammonium phosphate (DAP) or monoammonium phosphate (MAP). The plant consists of a reactor for introducing ammonia and phosphoric acid, a granulator, a heated dryer, granulated product screens (over/under size material is recycled), a granulated product cooler, and other process equipment. The emissions from the screening process pass through a cyclone which then vents to the same primary venturi phosphoric acid scrubber and secondary packed bed pond water scrubber as the reactor and granulator. The dryer vents to a second cyclone which then exhausts to a similar primary and secondary scrubbing system as the reactor, granulator, and screens. The product cooler vents to a third cyclone which exhausts to a third packed bed pond water scrubber. All three packed bed pond water scrubbers exhaust to a common stack. Natural gas, new/virgin No. 2 fuel oil, or new/virgin No. 6 fuel oil is used to fire the dryer at a maximum heat input rate of 30.0 MMBTU/hr, The No. 2 fuel oil and No. 6 fuel oil have a maximum sulfur content of 0.5% and 2.35% by weight, respectively.

This emission unit is regulated under Rule 62-296.403, F.A.C., Phosphate Processing.

This emission unit is subject to the following specific conditions:

Essential Potential to Emit (PTE) Parameters

B. 1. Capacity, the maximum DAP or MAP product weight rate shall not exceed 96 tons/hr. [As specified in permit applications, Letters dated October 26, 1992 and April 28, 1994 from the Permittee, and AO53-219080]

B. 2. Methods of Operation - Fuels: The MAP/DAP plant is authorized to burn only the following fuels in the dryer :

- (a) Natural gas
- (b) New/virgin No. 2 fuel oil with a maximum sulfur content of 0.5% by weight.
- (c) New/virgin No. 6 fuel oil with a maximum sulfur content of 2.35% by weight.
- (d) Fuel oil will be used less than 400 hrs./yr.
- (e) Maximum heat input to dryer - 30.0 MMBtu/hour.

[AO53-219080 and Rule 62-213.410, F.A.C.]

Emission Limitations and Standards

B. 3. Particulate Matter. When producing DAP or MAP, particulate matter emissions shall not exceed any of the following limits as requested by the permittee to be exempt from RACT:

- (a) 13.5 lbs./hr.
- (b) 59.13 tons/yr.

[Rule 62-296.700 (2) (b) , F.A.C.]

B. 4. Visible Emissions. When producing DAP or MAP, visible emissions shall not be equal to nor greater than 20% opacity. [Rule 296.310(2), F.A.C.]

B. 5. Fluoride Emissions. When producing DAP or MAP, the sum total fluoride emissions shall not exceed any of following limits:

- (a) 11.79 lbs./hr.
- (b) 51.64 tons/yr.

[Rule 62-296.403 (2) F.A.C. and allocation requested in a letter dated October 26, 1992 from the Permittee]

B. 6. The induced/forced draft fan amperes and scrubber liquid flow in gallons/minute shall not fall below 90% of the value reported during the most recent satisfactory compliance test for that mode of operation. [Rule 62-213.440(1)(b), F.A.C.]

- (a) The Reactor-Granulator-Screens (RGS) Primary Scrubber and the the RGS Secondary Scrubber;
- (b) The dryer's primary scrubber, and the dryer's secondary scrubber;
- (c) The product cooler scrubber.

B. 7. Pursuant to letters dated October 26, 1992 and April 28, 1994 from the Permittee, the seal tank which provides the scrubbing liquid for the RGS Primary Scrubber and Dryer Primary Scrubber shall be maintained at a mole ratio ($\text{NH}_3/\text{H}_3\text{PO}_4$) between:

- (a) 0.6 to 0.9 when producing DAP;
- (b) 0.15 to 0.9 when producing MAP.

Test Methods and Procedures

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

- Method 1 Sample and velocity traverses for stationary sources
- Method 2 Determination of stack gas velocity and volumetric flow rate (Type S pitot tube)
- Method 3 Gas analysis for carbon dioxide, oxygen, excess air, and dry molecular weight
- Method 4 Determination of moisture content in stack gases
- Method 5 Determination of particulate emissions from stationary sources
- Method 9 Visual determination of the opacity of emissions from stationary sources
- Method 13A Determination of total fluoride emissions from stationary sources-SPADNS zirconium lake method
- Method 13B Determination of total fluoride emissions from stationary sources-Specific ion electrode method

B. 9. Test each mode of operation for the following pollutants annually, on or prior to **May 15th**. Submit a copy of the test data to the Air Section of the Southwest District Office within 45 days of such testing:

(X) Particulate (X) Opacity (X) Fluorides

If, during the required 60 day test period, a specific mode (MAP/DAP) of operation is not in operation, then within 30 days of initial operation in that mode of operation, emission tests shall be conducted for that mode of operation.

[Rules 62-4.070(3), 62-210.700(1), 62-210.700(4), 62-210.700(6), and 62-4.130, F.A.C.]

B. 10. If a specific mode of operation had conducted emission tests within the previous 12 months, then the emission tests need not be repeated until exceeding that 12 month period, provided the last emission tests were conducted at a product weight rate no less than 90% of the current product weight rate for that mode of operation.

B. 11. Compliance with the emission limitations of paragraphs B. 3., B. 4., B. 5., shall be determined using EPA Methods specified in paragraph B. 8. as contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297.401, F.A.C. The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A .

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Monitoring, Recordkeeping, and Reporting Requirements

B. 12. In order to demonstrate compliance with the requirements of Conditions B. 1., B. 2.(e), B. 6., and B. 7., the permittee shall record production rates hourly expressed as 100% P_2O_5 . The other parameters specified in the above conditions shall be recorded at least once per 8-hour shift. The Permittee shall maintain a record of total hours the dryer is operated on fuel oil during the most recent 12 consecutive-month period, in order to comply with the 400 hour limit.

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

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

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

E.U.

ID No. Brief Description

003 Phosphoric Acid Production Plant - North Scrubber

010 Phosphoric Acid Production Plant - South Scrubber

For the operation of a phosphoric acid plant using the Prayon dihydrate process. The plant consists of one reactor, two filters, and two scrubbers. Maximum permitted total process feed rate is 65.1 tons per hour (1,562 tons per day) expressed as P_2O_5 . Fluoride emissions occur when sulfuric acid contacts ground phosphate rock in the digestion process. Fluoride emissions from the phosphoric acid plant are controlled by 2 separate scrubbers. The South Scrubber is a 12,300 ACFM Wellman-Lord three stage, mesh pad, cross flow scrubber. The North Scrubber is a 30,600 ACFM Lurgi Corporation three stage cyclonic scrubber. Both sets of scrubbers operate using pond water as the scrubbing liquid.

In 1985, an attempt was made to change from the dihydrate (gypsum) process to the hemihydrate (gypsum) process. Due to operational problems, the acid plant was issued construction permit AC53-182163 in 1991 for conversion back to the dihydrate process. This modification caused the plant to be subject to NSPS, and therefore comply with all the requirements of 40 CFR 60, Subpart T - "Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants".

This emission unit is subject to the following specific conditions:

Essential Potential to Emit (PTE) Parameters

C. 1. Capacity. The maximum total input of phosphate rock to the plant shall not exceed 65.1 tons per hour expressed as 100% P_2O_5 .

[As specified in permit applications and AC53-182163]

C. 2. Methods of Operation. This phosphoric acid plant will operate only in the mode which produces gypsum in the dihydrate form.

[Permit AC53-182163]

Emission Limitations and Standards

C. 3. Visible Emissions. Visible emissions shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2), F.A.C.]

C. 4. Fluoride Emissions. Total fluoride emissions from this phosphoric acid plant shall not exceed any of the following:

- A. 0.02 pound per ton of phosphorus-containing material fed (expressed as 100% P_2O_5);
- B. 0.61 pound per hour;
- C. 2.56 tons per year.

[40 CFR 60.202 and allocation requested in a letter dated October 26, 1992 from the Permittee]

C. 5. Fugitive Emissions. All man hole openings, seal tanks, etc. shall be covered to minimize fugitive fluoride emissions.

[Construction Permit No. AC53-182163]

Test Methods and Procedures

C. 6. The following EPA test methods are approved for demonstration of compliance with the above emission limitations and standards:

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

Method 13A Determination of total fluoride emissions from stationary sources-SPADNS zirconium lake method

Method 13B Determination of total fluoride emissions from stationary sources-Specific ion electrode method

Minimum sample volume per sample run is 30 dry standard cubic feet.

Minimum sampling time 60 min.

[Rules 62-296.403(3), F.A.C. and 40 CFR 60.204]

C. 7. Test the opacity and fluoride emissions from the scrubber exhaust stack of each phosphoric acid plant scrubber on an annual basis, on or prior to **May 15th**. Submit a copy of the test data to the Air Section of the Southwest District Office of the Department within 45 days of testing. [62-297.310(7), F.A.C.]

C. 8. Both scrubbers shall be tested simultaneously or within 5 days of each other, The phosphoric acid plant fluoride emissions shall be the sum of the emissions from each scrubber stack. [Rule 62-213.440(1)(b), F.A.C.]

C. 9. Compliance with the emission limitations of paragraphs C. 3. and C. 4. shall be determined using EPA Methods specified in paragraph C. 6. as contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297.403, F.A.C. The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 62-297, F.A.C., 40 CFR 60, Appendix A, and 40 CFR 60.204(b).

Monitoring of Operations

C. 10. For each scrubber, the following scrubber operating parameters shall be monitored during any compliance test and a summary of this data shall be included in any emissions test report.

- a. Volumetric Liquid Water Flow Rate;
- b. Induced/forced draft fan amperes.

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

C. 11. Mulberry Phosphates, Inc. shall install, calibrate, maintain, and operate a monitoring device which can be used to determine the mass flow of phosphorus-bearing feed material to the process. The monitoring device shall have an accuracy of $\pm 5\%$ over its operating range. [Rule 62-204.800, F.A.C. and 40 CFR 60.203(a)].

C. 12. Mulberry Phosphates, Inc., shall maintain a daily record of equivalent P_2O_5 feed by determining the mass flow rate per Condition C. 11. and then by the following equation:

$$P = M_p F_p$$

where:

P = Tons/hour fed expressed as P_2O_5

M_p = total mass flow rate of phosphorus-bearing feed (tons/hour)

F_p = P_2O_5 content, decimal fraction

[40 CFR 60.203(b) and 40 CFR 60.204(b)(3)]

C. 13. Mulberry Phosphates, Inc. shall install, calibrate, maintain, and operate a monitoring device which continuously measures and permanently records the total pressure drop across the process scrubbing system, The monitoring device shall have an accuracy of $\pm 5\%$ over its operating range. [Rule 62-204.800(7)(B)25., F.A.C. and 40 CFR 60.203(c)].

C. 14. To provide reasonable assurance that the air pollution control equipment is operating properly, Mulberry Phosphates, Inc., shall create and keep a record log of the scrubber

operating parameters for each scrubber, The record log shall contain, at a minimum, the volumetric liquid water flow rate, the induced/forced draft fan amperes, the date and time of the measurements, and the person responsible for performing the measurements. A record log entry shall be made at least once for every 8 hour shift that this phosphoric acid plant operates.

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

C. 15. Mulberry Phosphates, Inc. may, at its option, substitute continuous monitoring and strip chart recordings for the manual recordkeeping required by Condition No. C. 14. If this option is exercised, then all calibration and maintenance records and all original strip chart recordings shall be retained at least five years.

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

C. 16. When this phosphoric acid plant is operating, the volumetric scrubbing liquid flow rate (gallons/minute) to each scrubber, and induced/forced draft fan amperes, shall not fall below 90% of the rate reported during the most recent satisfactory compliance test.

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

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

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

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-009	Auxiliary Process Steam Boiler

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

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

This emission unit is subject to the following specific conditions:

Essential Potential to Emit (PTE) Parameters

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

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

A. The process steam boiler shall be fired on natural gas as primary fuel with new* No. 2 fuel oil as backup fuel, during natural gas curtailment.

B. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight.

C. The maximum heat input rate, fuel usage rate and hours of operation for this process steam boiler is as follows:

1. 93.2 MMBTU/hour, Natural gas
89.8 MMBTU/hour, new No. 2 fuel oil
2. 93,200 cubic feet/hour, natural gas
625.0 gallons/hour new No. 2 fuel oil
3. 8,760 hours/year, natural gas
400.0 hours/year, new No. 2 fuel oil

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

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

Emission Limitations and Standards

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

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

Test Methods and Procedures

D. 5. Test this process steam boiler annually for visible emissions. A copy of the compliance test data shall be submitted to the Air Section of the Department's Southwest District Office within 45 days of such testing. The following EPA test methods are approved for demonstration of compliance with the above emission limitations and standards:

<u>Method 9</u>	Visual determination of the opacity of emissions from stationary sources
<u>Method 6B</u>	Determination of sulfur dioxide and carbon dioxide daily average emissions from fossil fuel combustion sources.
<u>ASTM D 129-91.</u>	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method).

- ASTM D 2622-94. Standard Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry.
- ASTM D 4294-90. Standard Test Method for Sulfur in Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectroscopy.

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

D. 6. The visible emissions compliance test shall be conducted by a certified observer and be a minimum of 60 minutes in duration. The visible emissions (VE) compliance test could be waived, on a year by year basis, if liquid and/or solid fuel has not been used in this boiler for more than 400 hours for the previous 12 months and if it is not expected to be used in this boiler for more than 400 hours during the next 12 months. Each year, when the VE test is due, a letter must be sent to this office stating that the above criteria for the waiver have been satisfied. [Rules 62-297.310(7)(a)5., and 62-297.310(4)(A)2., F.A.C.]

Monitoring, Recordkeeping, and Reporting Requirements

D. 7. In accordance with 40 CFR 60.48c(e), the owner or operator of each affected boiler subject to the SO₂ emission limits or fuel oil sulfur limits requirements of 40 CFR 60.42c shall keep records and submit quarterly reports as required under 40 CFR 60.48c(d) including the applicable information under 40 CFR 60.48c(e)(f)(g)(h) & (i).

D. 8. In order to document continuing compliance with Condition No. D. 3., records of the sulfur content, in % by weight, of fuel oil used shall be maintained based on either vendor provided as-shipped analysis for each shipment received during the use of oil in the boiler, or on analysis of as-received samples taken at the plant during oil usage.

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

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

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-011	Molten Sulfur Storage/Handling--Truck Delivery Pit
-012	Molten Sulfur Storage/Handling--Railcar Delivery Pit <i>not in use</i>
-013	Molten Sulfur Storage/Handling--Storage Tank, North Vent
-014	Molten Sulfur Storage/Handling--Storage Tank, Southeast Vent
-015	Molten Sulfur Storage/Handling--Storage Tank, Southwest Vent
-016	Molten Sulfur Storage/Handling--Storage Tank, Middle Vent

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

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

Essential Potential to Emit (PTE) Parameters

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

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

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

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

of sulfur that may escape during routine disconnection, reconnection or operation of the piping system.

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

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

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

Emission Limitations and Standards

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

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

Test Methods and Procedures

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

(X) Opacity

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

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E. 6. The visible emissions test of each delivery pit and tank vent shall be conducted prior to application to renew this permit by a certified observer and be a minimum of thirty (30) minutes in duration. The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. [Rule 62-297.310(4)(a)2., F.A.C.]

Recordkeeping and Reporting Requirements

E. 7. In order to demonstrate compliance with Condition No. E. 1., the Permittee shall maintain records of sulfur throughput for the most recent 12 consecutive-month period. [Rule 62-213.440(1)(b), F.A.C.]

E. 8. The permittee shall maintain records of spills outside of containment areas and of collection and disposal of spilled sulfur. Such records shall be retained for a minimum of five (5) years and shall be available for inspection by the Department upon request. [Rule 62-296.411, F.A.C.]

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

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

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-019	Phosphogypsum Disposal Stack

F.1. The following specific conditions are a verbatim copy of 40 CFR 61 Subpart R-
National Emission Standards for Radon Emissions From Phosphogypsum Stacks:

§61.200 Designation of facilities.

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

§ 61.201 Definitions.

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

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

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

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

§61.202 Standard.

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

§61.203 Radon monitoring and compliance procedures.

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

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

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

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

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

(d) If at any point an owner or operator of a stack once again uses an inactive stack for the disposal of phosphogypsum or for water management, the stack ceases to be in inactive status and the owner or operator must notify EPA in writing within 45 days.

When the owner or operator ceases to use the stack for disposal of phosphogypsum or water management, the stack will once again become inactive and the owner or operator must satisfy again all testing and reporting requirements for inactive stacks.

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

§61.204 Distribution and use of phosphogypsum for agricultural purposes.

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

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

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

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

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

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

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

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

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

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

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

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

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

**Caution: Phosphogypsum Contains Elevated Levels of
Naturally Occurring Radioactivity**

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

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

§61.206 Distribution and use of phosphogypsum for other purposes.

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

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

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

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

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

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

(5) The quantity of phosphogypsum to be used by each facility.
(6) The average concentration of radium-226 in the phosphogypsum to be used.

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

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

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

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

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

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

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

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

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

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

§61.207 Radium-226 sampling and measurement procedures.

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

from that location and at least once during each calendar year while distribution of phosphogypsum removed from the location continues.

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

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

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

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

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

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

where:

τ is the students - τ distribution,

s = measured standard deviation of the radium-226 concentration,

x = measured mean of the radium-226 concentration,

e = allowable error (expressed as a fraction), and

n = number of samples.

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

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

§61.208 Certification requirements.

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

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

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

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

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

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

§61.209 Required records.

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

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

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

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

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

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

(5) The date of each use of phosphogypsum.

(6) The quantity of phosphogypsum used.

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

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

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

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

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

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

Source: 57 FR 23317, June 3, 1992, unless otherwise noted. CLP 6/9/97

Appendix I-1, List of Insignificant Emissions Units and/or Activities.

Mulberry Phosphates, Incorporated
Mulberry Phosphate Fertilizer Complex

FINAL Permit No.: 1050048-001-AV
Facility ID No.: 1050048

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, are exempt from the permitting requirements of Chapters 62-210 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining the potential emissions of the facility containing such emissions units. Emissions units and pollutant-emitting activities exempt from permitting under Rule 62-210.300(3)(a), F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emissions units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emissions unit shall be entitled to an exemption from permitting under Rule 62-210.300(3)(a), F.A.C., if its emissions, in combination with the emissions of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

Brief Description of Emissions Units and/or Activities

1. Combustion emissions from mobile sources used on plant grounds for maintenance or transport.
2. Air-conditioning units used for human comfort which do not apply under Title VI.
3. Ventilating units used for human comfort that do not exhaust process emissions.
4. Non-commercial food preparation.
5. Consumer use of office equipment and products (not including full time printing or photographic reproduction operations).
6. Janitorial services and use of janitorial products.
7. Internal combustion devices for landscape maintenance.
8. General plant maintenance activities and shop areas (cleaning, welding, painting and similar activities not related to the facility primary business activity).
9. Storage tanks and vessels that do not emit VOC or HAPs.
10. Vents from continuous emission monitoring equipment.
11. Steam and ammonia safety valve venting.
12. Fugitive dust from cleaning activities.
13. Sulfur compounds from natural gas odorizing.
14. Venting of QA laboratory operations.

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers (version dated 2/5/97)

Abbreviations and Acronyms:

°F: Degrees Fahrenheit
BACT: Best Available Control Technology
CFR: Code of Federal Regulations
DEP: State of Florida, Department of Environmental Protection
DARM: Division of Air Resource Management
EPA: United States Environmental Protection Agency
F.A.C.: Florida Administrative Code
F.S.: Florida Statute
ISO: International Standards Organization
LAT: Latitude
LONG: Longitude
MMBtu: million British thermal units
MW: Megawatt
ORIS: Office of Regulatory Information Systems
SOA: Specific Operating Agreement
UTM: Universal Transverse Mercator

Citations:

The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers, and ID numbers.

Code of Federal Regulations:

Example: [40 CFR 60.334]

Where:	40	reference to	Title 40
	CFR	reference to	Code of Federal Regulations
	60	reference to	Part 60
	60.334	reference to	Regulation 60.334

Florida Administrative Code (F.A.C.) Rules:

Example: [Rule 62-213, F.A.C.]

Where:	62	reference to	Title 62
	62-213	reference to	Chapter 62-213
	62-213.205	reference to	Rule 62-213.205, F.A.C.

ISO: International Standards Organization refers to those conditions at 288 degrees K, 60 percent relative humidity, and 101.3 kilopascals pressure.

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
(version dated 02/05/97) (continued)

Identification Numbers:

Facility Identification (ID) Number:

Example: Facility ID No.: 1050221

Where:

105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by state database.

Permit Numbers:

Example: 1050221-002-AV, or
1050221-001-AC

Where:

AC = Air Construction Permit
AV = Air Operation Permit (Title V Source)
105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by permit tracking database
001 or 002 = 3-digit sequential project number assigned by permit tracking database

Example: PSD-FL-185
PA95-01
AC53-208321

Where:

PSD = Prevention of Significant Deterioration Permit
PA = Power Plant Siting Act Permit
AC = old Air Construction Permit numbering

Appendix H-1, Permit History/ID Number Changes

Mulberry Phosphates, Incorporated
Robert Stewart, Vice President
Operations & Administration

FINAL Permit No.: 1050048-001-AV
Facility ID No.: 1050048

Permit History (for tracking purposes):

<u>E.U.</u> <u>ID No</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Expiration Date</u>	<u>Extended Date</u> ^{1,2}	<u>Revised Date(s)</u>
002	SULFURIC ACID PLT.	AC53-2584	12/26/74	9/16/75		
		AO53-6050	12/14/78	1/31/83		
		AC53-6458A	8/28/78	8/30/79		
		AO53-17115	3/1/97	2/1/84		
		AO53-78016	1/31/84	1/15/89		
		AC53-85261	7/2/85	7/1/86		
		AO53-117930	9/11/86	8/28/91		
		AO53-198769	8/30/91	8/28/96		
003	PRAYON PHOS ACID PLANT	AC53-101283	6/18/85	6/18/90		
		AC53-182163	7/10/90	12/31/90		
		AO53-202858	12/20/91	11/8/96		
005	DAP PLANT	AO53-5991	2/6/78	1/31/83		
		AO53-63743	3/11/83	1/30/88		
		AO53-140387	12/30/87	12/23/92		9/1/88
		AO53-219080	12/23/92	12/18/97		6/30/94
009	NEW STEAM GENERATOR	AC53-234449	12/9/93	11/9/94		
		AO53-249982	6/24/94	6/20/99		
011	MOLTEN SULFUR TRUCK PIT	AC53-163740	9/28/89	4/1/90		
		AO53-173754	4/3/90	4/3/95		7/2/92
012	MOLTEN SULFUR RR PIT	AC53-163740	9/28/89	4/1/90		
		AO53-173754	4/3/90	4/3/95		7/2/92
013	MOLTEN SULFUR TANK N.	AC53-163740	9/28/89	4/1/90		
		AO53-173754	4/3/90	4/3/95		7/2/92
014	MOLTEN SULFUR TANK SE	AC53-163740	9/28/89	4/1/90		
		AO53-173754	4/3/90	4/3/95		7/2/92
015	MOLTEN SULFUR TANK SW	AC53-163740	9/28/89	4/1/90		
		AO53-173754	4/3/90	4/3/95		7/2/92
016	MOLTEN SULFUR TANK MID.	AC53-163740	9/28/89	4/1/90		
		AO53-173754	4/3/90	4/3/95		7/2/92
017	STEAM GENERATOR #2	AC53-210976	5/4/92	4/2/93		
018	STEAM GENERATOR #3	AC53-210976	5/4/92	4/2/93		

FACILITY ID NUMBER CHANGES: From: Facility ID No.: 40TPA530048 To: Facility ID No.: 1050048

Notes:

1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96. 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
{Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}

APPENDIX TV-3, TITLE V CONDITIONS (version dated 04/30/99)

[Note: This attachment includes "canned conditions" developed from the "Title V Core List."]

{Permitting note: APPENDIX TV-3, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.}

Chapter 62-4, F.A.C.

1. Not federally enforceable. General Prohibition. Any stationary installation which will reasonably be expected to be a source of pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the Department, unless the source is exempted by Department rule. The Department may issue a permit only after it receives reasonable assurance that the installation will not cause pollution in violation of any of the provisions of Chapter 403, F.S., or the rules promulgated thereunder. A permitted installation may only be operated, maintained, constructed, expanded or modified in a manner that is consistent with the terms of the permit.

[Rule 62-4.030, Florida Administrative Code (F.A.C.); Section 403.087, Florida Statute (F.S.)]

2. Not federally enforceable. Procedure to Obtain Permits: Application.

(1) Any person desiring to obtain a permit from the Department shall apply on forms prescribed by the Department and shall submit such additional information as the Department by law may require.

(2) All applications and supporting documents shall be filed in quadruplicate with the Department.

(3) To ensure protection of public health, safety, and welfare, any construction, modification, or operation of an installation which may be a source of pollution shall be in accordance with sound professional engineering practices pursuant to Chapter 471, F.S. All applications for a Department permit shall be certified by a professional engineer registered in the State of Florida except when the application is for renewal of an air pollution operation permit at a minor facility as defined in Rule 62-210.200, F.A.C., or where professional engineering is not required by Chapter 471, F.S. Where required by Chapter 471 or 492, F.S., applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

(4) Processing fees for air construction permits shall be in accordance with Rule 62-4.050(4), F.A.C.

(5)(a) To be considered by the Department, each application must be accompanied by the proper processing fee. The fee shall be paid by check, payable to the Department of Environmental Protection. The fee is non-refundable except as provided in Section 120.60, F.S., and in this section.

(c) Upon receipt of the proper application fee, the permit processing time requirements of Sections 120.60(2) and 403.0876, F.S., shall begin.

(d) If the applicant does not submit the required fee within ten days of receipt of written notification, the Department shall either return the unprocessed application or arrange with the applicant for the pick up of the application.

(e) If an applicant submits an application fee in excess of the required fee, the permit processing time requirements of Sections 120.60(2) and 403.0876, F.S., shall begin upon receipt, and the Department shall refund to the applicant the amount received in excess of the required fee.

(6) Any substantial modification to a complete application shall require an additional processing fee determined pursuant to the schedule set forth in Rule 62-4.050, F.A.C., and shall restart the time requirements of Sections 120.60 and 403.0876, F.S. For purposes of this Subsection, the term "substantial modification" shall mean a modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review.

(7) Modifications to existing permits proposed by the permittee which require substantial changes in the existing permit or require substantial evaluation by the Department of potential impacts of the proposed modifications shall require the same fee as a new application.

[Rule 62-4.050, F.A.C.]

3. Standards for Issuing or Denying Permits. Except as provided at Rule 62-213.460, F.A.C., the issuance of a permit does not relieve any person from complying with the requirements of Chapter 403, F.S., or Department rules.

[Rule 62-4.070(7), F.A.C.]

4. Modification of Permit Conditions.

(1) For good cause 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. For the purpose of this section, good cause shall include, but not be limited to, any of the following: (also, see Condition No. 38)

- (a) A showing that an improvement in effluent or emission quality or quantity can be accomplished because of technological advances without unreasonable hardship.
- (b) A showing that a higher degree of treatment is necessary to effect the intent and purpose of Chapter 403, F.S.
- (c) A showing of any change in the environment or surrounding conditions that requires a modification to conform to applicable air or water quality standards.
- (e) Adoption or revision of Florida Statutes, rules, or standards which require the modification of a permit condition for compliance.

(2) A permittee may request a modification of a permit by applying to the Department.

(3) A permittee may request that a permit be extended as a modification of the permit. Such a request must be submitted to the Department in writing before the expiration of the permit. Upon timely submittal of a request for extension, unless the permit automatically expires by statute or rule, the permit will remain in effect until final agency action is taken on the request. For construction permits, an extension shall be granted if the applicant can demonstrate reasonable assurances that, upon completion, the extended permit will comply with the standards and conditions required by applicable regulation. For all other permits, an extension shall be granted if the applicant can demonstrate reasonable assurances that the extended permit will comply with the standards and conditions applicable to the original permit. A permit for which the permit application fee was prorated in accordance with Rule 62-4.050(4)(1), F.A.C., shall not be extended. In no event shall a permit be extended or remain in effect longer than the time limits established by statute or rule.

[Rule 62-4.080, F.A.C.]

5. Renewals. Prior to one hundred eighty (180) days before the expiration of a permit issued pursuant to Chapter 62-213, F.A.C., the permittee shall apply for a renewal of a permit using forms incorporated by reference in the specific rule chapter for that kind of permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 180 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department or, if there is court review of the Department's final agency action, until a later date is required by Section 120.60, F.S., provided that, for renewal of a permit issued pursuant to Chapter 62-213, F.A.C., the applicant complies with the requirements of Rules 62-213.420(1)(b)3. and 4., F.A.C.

[Rule 62-4.090(1), F.A.C.]

6. Suspension and Revocation.

(1) Permits shall be effective until suspended, revoked, surrendered, or expired and shall be subject to the provisions of Chapter 403, F.S., and rules of the Department.

(2) Failure to comply with pollution control laws and rules shall be grounds for suspension or revocation.

(3) A permit issued pursuant to Chapter 62-4, F.A.C., shall not become a vested property right in the permittee. The Department may revoke any permit issued by it if it finds that the permit holder or the permit holder's agent:

- (a) Submitted false or inaccurate information in application or operational reports.
- (b) Has violated law, Department orders, rules or permit conditions.
- (c) Has failed to submit operational reports or other information required by Department rules.
- (d) Has refused lawful inspection under Section 403.091, F.S.

[Rule 62-4.100, F.A.C.]

7. Not federally enforceable. Financial Responsibility. The Department may require an applicant to submit proof of financial responsibility and may require the applicant to post an appropriate bond to guarantee compliance with the law and Department rules.

[Rule 62-4.110, F.A.C.]

8. Transfer of Permits.

- (1) Within 30 days after the sale or legal transfer of a permitted facility, an "Application for Transfer of Permit" (DEP Form 62-1.201(1)) must be submitted to the Department. This form must be completed with the notarized signatures of both the permittee and the proposed new permittee.
- (2) The Department shall approve the transfer of a permit unless it determines that the proposed new permittee cannot provide reasonable assurances that conditions of the permit will be met. The determination shall be limited solely to the ability of the new permittee to comply with the conditions of the existing permit, and it shall not concern the adequacy of these permit conditions. If the Department proposes to deny the transfer, it shall provide both the permittee and the proposed new permittee a written objection to such transfer together with notice of a right to request a Chapter 120, F.S., proceeding on such determination.
- (3) Within 30 days of receiving a properly completed Application for Transfer of Permit form, the Department shall issue a final determination. The Department may toll the time for making a determination on the transfer by notifying both the permittee and the proposed new permittee that additional information is required to adequately review the transfer request. Such notification shall be served within 30 days of receipt of an Application for Transfer of Permit form, completed pursuant to Rule 62-4.120(1), F.A.C. If the Department fails to take action to approve or deny the transfer within 30 days of receipt of the completed Application for Transfer of Permit form, or within 30 days of receipt of the last item of timely requested additional information, the transfer shall be deemed approved.
- (4) The permittee is encouraged to apply for a permit transfer prior to the sale or legal transfer of a permitted facility. However, the transfer shall not be effective prior to the sale or legal transfer.
- (5) Until this transfer is approved by the Department, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations occurring prior to the sale or legal transfer of the facility.
[Rule 62-4.120, F.A.C.]

9. Plant Operation-Problems. If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. (also, see Condition No. 10)
[Rule 62-4.130, F.A.C.]

10. For purposes of notification to the Department pursuant to Condition No. 9, Condition No. 12(8), and Rule 62-4.130, F.A.C., Plant Operation-Problems, "immediately" shall mean the same day, if during a workday (i.e., 8:00 a.m. - 5:00 p.m.), or the first business day after the incident, excluding weekends and holidays; and, for purposes of 40 CFR 70.6(a)iii, "prompt" shall have the same meaning as "immediately". [also, see Conditions Nos. 9 and 12(8)]
[40 CFR 70.6(a)(3)(iii)(B)]

11. Not federally enforceable. Review. Failure to request a hearing within 14 days of receipt of notice of proposed or final agency action on a permit application or as otherwise required in Chapter 62-103, F.A.C., shall be deemed a waiver of the right to an administrative hearing.
[Rule 62-4.150, F.A.C.]

12. Permit Conditions. All permits issued by the Department shall include the following general conditions:

- (1) The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. 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.
- (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, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- (3) As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any 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 of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

- (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.
- (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 F.S. and Department rules, unless specifically authorized by an order from the Department.
- (6) The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and 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.
- (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 reasonable times, access to the premises where the permitted activity is located or conducted to:
- (a) Have access to and copy any records that must be kept under 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 reasonable necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
- (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: (also, see Condition No. 10)
- (a) A description of and cause of noncompliance; and,
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. 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.
- (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 F.S. or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- (10) The permittee agrees to comply with changes in Department rules and F.S. after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by F.S. or Department rules.
- (11) This permit is transferable only upon Department approval in accordance with Rule 62-4.120, 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.
- (12) This permit or a copy thereof shall be kept at the work site of the permitted activity.
- (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 for this permit. These materials shall be retained at least five (5) 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.
- (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 the 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.
- [Rules 62-4.160 and 62-213.440(1)(b), F.A.C.]

13. Construction Permits.

(1) No person shall construct any installation or facility which will reasonably be expected to be a source of air or water pollution without first applying for and receiving a construction permit from the Department unless exempted by statute or Department rule. In addition to the requirements of Chapter 62-4, F.A.C., applicants for a Department Construction Permit shall submit the following as applicable:

- (a) A completed application on forms furnished by the Department.
- (b) An engineering report covering:
 - 1. plant description and operations,
 - 2. types and quantities of all waste material to be generated whether liquid, gaseous or solid,
 - 3. proposed waste control facilities,
 - 4. the treatment objectives,
 - 5. the design criteria on which the control facilities are based, and,
 - 6. other information deemed relevant.

Design criteria submitted pursuant to Rule 62-4.210(1)(b)5., F.A.C., shall be based on the results of laboratory and pilot-plant scale studies whenever such studies are warranted. The design efficiencies of the proposed waste treatment facilities and the quantities and types of pollutants in the treated effluents or emissions shall be indicated. Work of this nature shall be subject to the requirements of Chapter 471, F.S. Where confidential records are involved, certain information may be kept confidential pursuant to Section 403.111, F.S.

(c) The owners' written guarantee to meet the design criteria as accepted by the Department and to abide by Chapter 403, F.S. and the rules of the Department as to the quantities and types of materials to be discharged from the installation. The owner may be required to post an appropriate bond or other equivalent evidence of financial responsibility to guarantee compliance with such conditions in instances where the owner's financial resources are inadequate or proposed control facilities are experimental in nature.

(2) The construction permit may contain conditions and an expiration date as determined by the Secretary or the Secretary's designee.

(3) When the Department issues a permit to construct, the permittee shall be allowed a period of time, specified in the permit, to construct, and to operate and test to determine compliance with Chapter 403, F.S., and the rules of the Department and, where applicable, to apply for and receive an operation permit. The Department may require tests and evaluations of the treatment facilities by the permittee at his/her expense.

[Rule 62-4.210, F.A.C.]

14. Not federally enforceable. Operation Permit for New Sources. To properly apply for an operation permit for new sources, the applicant shall submit certification that construction was completed noting any deviations from the conditions in the construction permit and test results where appropriate.

[Rule 62-4.220, F.A.C.]

Chapters 28-106 and 62-110, F.A.C.

15. Public Notice, Public Participation, and Proposed Agency Action. The permittee shall comply with all of the requirements for public notice, public participation, and proposed agency action pursuant to Rule 62-110.106 and Rule 62-210.350, F.A.C.

[Rules 62-110.106, 62-210.350 and 62-213.430(1)(b), F.A.C.]

16. Administrative Hearing. The permittee shall comply with all of the requirements for a petition for administrative hearing or waiver of right to administrative proceeding pursuant to Rules 28-106.201, 28-106.301 and 62-110.106, F.A.C.

[Rules 28-106.201, 28-106.301 and 62-110.106, F.A.C.]

Chapter 62-204, F.A.C.

17. Asbestos. This permit does not authorize any demolition or renovation of the facility or its parts or components which involves asbestos removal. This permit does not constitute a waiver of any of the requirements of Chapter 62-257, F.A.C., and 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos, adopted and incorporated by reference in Rule 62-204.800, F.A.C. Compliance with Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, Section 61.145, is required for any asbestos demolition or renovation at the source.

[40 CFR 61; Rule 62-204.800, F.A.C.; and, Chapter 62-257, F.A.C.]

Chapter 62-210, F.A.C.

18. Permits Required. The owner or operator of any emissions unit which emits or can reasonably be expected to emit any air pollutant shall obtain an appropriate permit from the Department prior to beginning construction, modification, or initial or continued operation of the emissions unit unless exempted pursuant to Department rule or statute. All emissions limitations, controls, and other requirements imposed by such permits shall be at least as stringent as any applicable limitations and requirements contained in or enforceable under the State Implementation Plan (SIP) or that are otherwise federally enforceable. Except as provided at Rule 62-213.460, F.A.C., issuance of a permit does not relieve the owner or operator of an emissions unit from complying with any applicable requirements, any emission limiting standards or other requirements of the air pollution rules of the Department or any other such requirements under federal, state, or local law.

(1) Air Construction Permits.

(a) Unless exempt from permitting pursuant to Rule 62-210.300(3)(a) or (b), F.A.C., or Rule 62-4.040, F.A.C., an air construction permit shall be obtained by the owner or operator of any proposed new or modified facility or emissions unit prior to the beginning of construction or modification, in accordance with all applicable provisions of this chapter, Chapter 62-212, F.A.C., and Chapter 62-4, F.A.C. Except as provided under Rule 62-213.415, F.A.C., the owner or operator of any facility seeking to create or change an air emissions bubble shall obtain an air construction permit in accordance with all the applicable provisions of this chapter, Chapter 62-212, F.A.C., and Chapter 62-4, F.A.C. The construction permit shall be issued for a period of time sufficient to allow construction or modification of the facility or emissions unit and operation while the new or modified facility or emissions unit is conducting tests or otherwise demonstrating initial compliance with the conditions of the construction permit.

(b) Notwithstanding the expiration of an air construction permit, all limitations and requirements of such permit that are applicable to the design and operation of the permitted facility or emissions unit shall remain in effect until the facility or emissions unit is permanently shut down, except for any such limitation or requirement that is obsolete by its nature (such as a requirement for initial compliance testing) or any such limitation or requirement that is changed in accordance with the provisions of Rule 62-210.300(1)(b)1., F.A.C. Either the applicant or the Department can propose that certain conditions be considered obsolete. Any conditions or language in an air construction permit that are included for informational purposes only, if they are transferred to the air operation permit, shall be transferred for informational purposes only and shall not become enforceable conditions unless voluntarily agreed to by the permittee or otherwise required under Department rules.

1. Except for those limitations or requirements that are obsolete, all limitations and requirements of an air construction permit shall be included and identified in any air operation permit for the facility or emissions unit. The limitations and requirements included in the air operation permit can be changed, and thereby superseded, through the issuance of an air construction permit, federally enforceable state air operation permit, federally enforceable air general permit, or Title V air operation permit; provided, however, that:

- a. Any change that would constitute an administrative correction may be made pursuant to Rule 62-210.360, F.A.C.;
- b. Any change that would constitute a modification, as defined at Rule 62-210.200, F.A.C., shall be accomplished only through the issuance of an air construction permit; and
- c. Any change in a permit limitation or requirement that originates from a permit issued pursuant to 40 CFR 52.21, Rule 62-204.800(10)(d)2., F.A.C., Rule 62-212.400, F.A.C., Rule 62-212.500, F.A.C., or any former codification of Rule 62-212.400 or 62-212.500, F.A.C., shall be accomplished only through the issuance of a new or revised air construction permit under Rule 62-204.800(10)(d)2., F.A.C., 62-212.400 or 62-212.500, F.A.C., as appropriate.

2. The force and effect of any change in a permit limitation or requirement made in accordance with the provisions of Rule 62-210.300(1)(b)1. F.A.C., shall be the same as if such change were made to the original air construction permit.

3. Nothing in Rule 62-210.300(1)(b), F.A.C., shall be construed as to allow operation of a facility or emissions unit without a valid air operation permit.

(2) Air Operation Permits. Upon expiration of the air operation permit for any existing facility or emissions unit, subsequent to construction or modification and demonstration of initial compliance with the conditions of the construction permit for any new or modified facility or emissions unit, or as otherwise provided in Chapter 62-210 or Chapter 62-213, the owner or operator of such facility or emissions unit shall obtain a renewal air operation permit, an initial air operation permit, or an administrative correction or revision of an existing air operation permit, whichever is appropriate, in accordance with all applicable provisions of Chapter 62-210, Chapter 62-213, and Chapter 62-4, F.A.C.

(a) Minimum Requirements for All Air Operation Permits. At a minimum, a permit issued pursuant to this subsection shall:

1. Specify the manner, nature, volume and frequency of the emissions permitted, and the applicable emission limiting standards or performance standards, if any;
2. Require proper operation and maintenance of any pollution control equipment by qualified personnel, where applicable in accordance with the provisions of any operation and maintenance plan required by the air pollution rules of the Department.

3. Contain an effective date stated in the permit which shall not be earlier than the date final action is taken on the application and be issued for a period, beginning on the effective date, as provided below.
- a. The operation permit for an emissions unit which is in compliance with all applicable rules and in operational condition, and which the owner or operator intends to continue operating, shall be issued or renewed for a five-year period, except that, for Title V sources subject to Rule 62-213.420(1)(a)1., F.A.C., operation permits shall be extended until 60 days after the due date for submittal of the facility's Title V permit application as specified in Rule 62-213.420(1)(a)1., F.A.C.
 - b. Except as provided in Rule 62-210.300(2)(a)3.d., F.A.C., the operation permit for an emissions unit which has been shut down for six months or more prior to the expiration date of the current operation permit, shall be renewed for a period not to exceed five years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided:
 - (i) the owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and,
 - (ii) the owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and,
 - (iii) the emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.
 - c. Except as provided in Rule 62-210.300(2)(a)3.d., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.
 - d. The operation permit for an electric utility generating unit on cold standby or long-term reserve shutdown shall be renewed for a five-year period, and additional five-year periods, even if the unit is not maintained in operational condition, provided the conditions given in Rules 62-210.300(2)(a)3.b.(i) through (iii), F.A.C., are met.
4. In the case of an emissions unit permitted pursuant to Rules 62-210.300(2)(a)3.b., c., and d., F.A.C., include reasonable notification and compliance testing requirements for reactivation of such emissions unit and provide that the owner or operator demonstrate to the Department prior to reactivation that such reactivation would not constitute reconstruction pursuant to Rule 62-204.800(7), F.A.C.

[Rules 62-210.300(1) & (2), F.A.C.]

19. **Not federally enforceable. Notification of Startup.** The owner or operator of any emissions unit or facility which has a valid air operation permit and which has been shut down more than one (1) year, shall notify the Department in writing of the intent to start up such emissions unit or facility, a minimum of sixty (60) days prior to the intended startup date.

- (a) The notification shall include the planned startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit.
- (b) If, due to an emergency, a startup date is not known 60 days prior thereto, the owner shall notify the Department as soon as possible after the date of such startup is ascertained.

[Rule 62-210.300(5), F.A.C.]

20. **Emissions Unit Reclassification.**

- (a) Any emissions unit whose operation permit has been revoked as provided for in Chapter 62-4, F.A.C., shall be deemed permanently shut down for purposes of Rule 62-212.500, F.A.C. Any emissions unit whose permit to operate has expired without timely renewal or transfer may be deemed permanently shut down, provided, however, that no such emissions unit shall be deemed permanently shut down if, within 20 days after receipt of written notice from the Department, the emissions unit owner or operator demonstrates that the permit expiration resulted from inadvertent failure to comply with the requirements of Rule 62-4.090, F.A.C., and that the owner or operator intends to continue the emissions unit in operation, and either submits an application for an air operation permit or complies with permit transfer requirements, if applicable.

(b) If the owner or operator of an emissions unit which is so permanently shut down, applies to the Department for a permit to reactivate or operate such emissions unit, the emissions unit will be reviewed and permitted as a new emissions unit.

[Rule 62-210.300(6), F.A.C.]

21. Public Notice and Comment.

(1) Public Notice of Proposed Agency Action.

(a) A notice of proposed agency action on permit application, where the proposed agency action is to issue the permit, shall be published by any applicant for:

1. An air construction permit;
2. An air operation permit, permit renewal or permit revision subject to Rule 62-210.300(2)(b), F.A.C., (i.e., a FESOP), except as provided in Rule 62-210.300(2)(b)1.b., F.A.C.; or
3. An air operation permit, permit renewal, or permit revision subject to Chapter 62-213, F.A.C., except those permit revisions meeting the requirements of Rule 62-213.412(1), F.A.C.

(b) The notice required by Rule 62-210.350(1)(a), F.A.C., shall be published in accordance with all otherwise applicable provisions of Rule 62-110.106, F.A.C. A public notice under Rule 62-210.350(1)(a)1., F.A.C., for an air construction permit may be combined with any required public notice under Rule 62-210.350(1)(a)2. or 3., F.A.C., for air operation permits. If such notices are combined, the public notice must comply with the requirements for both notices.

(c) Except as otherwise provided at Rules 62-210.350(2) and (5), F.A.C., each notice of intent to issue an air construction permit shall provide a 14-day period for submittal of public comments.

(2) Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment - Area Preconstruction Review.

(a) Before taking final agency action on a construction permit application for any proposed new or modified facility or emissions unit subject to the preconstruction review requirements of Rule 62-212.400 or 62-212.500, F.A.C., the Department shall comply with all applicable provisions of Rule 62-110.106, F.A.C., and provide an opportunity for public comment which shall include as a minimum the following:

1. A complete file available for public inspection in at least one location in the district affected which includes the information submitted by the owner or operator, exclusive of confidential records under Section 403.111, F.S., and the Department's analysis of the effect of the proposed construction or modification on ambient air quality, including the Department's preliminary determination of whether the permit should be approved or disapproved;
2. A 30-day period for submittal of public comments; and,
3. A notice, by advertisement in a newspaper of general circulation in the county affected, specifying the nature and location of the proposed facility or emissions unit, whether BACT or LAER has been determined, the degree of PSD increment consumption expected, if applicable, and the location of the information specified in paragraph 1. above; and notifying the public of the opportunity for submitting comments and requesting a public hearing.

(b) The notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall be prepared by the Department and published by the applicant in accordance with all applicable provisions of Rule 62-110.106, F.A.C., except that the applicant shall cause the notice to be published no later than thirty (30) days prior to final agency action.

(c) A copy of the notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall also be sent by the Department to the Regional Office of the U. S. Environmental Protection Agency and to all other state and local officials or agencies having cognizance over the location of such new or modified facility or emissions unit, including local air pollution control agencies, chief executives of city or county government, regional land use planning agencies, and any other state, Federal Land Manager, or Indian Governing Body whose lands may be affected by emissions from the new or modified facility or emissions unit.

(d) A copy of the notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall be displayed in the appropriate district, branch and local program offices.

(e) An opportunity for public hearing shall be provided in accordance with Chapter 120, F.S., and Rule 62-110.106, F.A.C.

(f) Any public comments received shall be made available for public inspection in the location where the information specified in Rule 62-210.350(2)(a)1., F.A.C., is available and shall be considered by the Department in making a final determination to approve or deny the permit.

(g) The final determination shall be made available for public inspection at the same location where the information specified in Rule 62-210.350(2)(a)1., F.A.C., was made available.

(h) For a proposed new or modified emissions unit which would be located within 100 kilometers of any Federal Class I area or whose emissions may affect any Federal Class I area, and which would be subject to the preconstruction review requirements of Rule 62-212.400, F.A.C., or Rule 62-212.500, F.A.C.:

1. The Department shall mail or transmit to the Administrator a copy of the initial application for an air construction permit and notice of every action related to the consideration of the permit application.

2. The Department shall mail or transmit to the Federal Land Manager of each affected Class I area a copy of any written notice of intent to apply for an air construction permit; the initial application for an air construction permit, including all required analyses and demonstrations; any subsequently submitted information related to the application; the preliminary determination and notice of proposed agency action on the permit application; and any petition for an administrative hearing regarding the application or the Department's proposed action. Each such document shall be mailed or transmitted to the Federal Land Manager within fourteen (14) days after its receipt by the Department.

(3) Additional Public Notice Requirements for Facilities Subject to Operation Permits for Title V Sources.

(a) Before taking final agency action to issue a new, renewed, or revised air operation permit subject to Chapter 62-213, F.A.C., the Department shall comply with all applicable provisions of Rule 62-110.106, F.A.C., and provide an opportunity for public comment which shall include as a minimum the following:

1. A complete file available for public inspection in at least one location in the district affected which includes the information submitted by the owner or operator, exclusive of confidential records under Section 403.111, F.S.; and,
2. A 30-day period for submittal of public comments.

(b) The notice provided for in Rule 62-210.350(3)(a), F.A.C., shall be prepared by the Department and published by the applicant in accordance with all applicable provisions of Rule 62-110.106, F.A.C., except that the applicant shall cause the notice to be published no later than thirty (30) days prior to final agency action.

(c) The notice shall identify:

1. The facility;
2. The name and address of the office at which processing of the permit occurs;
3. The activity or activities involved in the permit action;
4. The emissions change involved in any permit revision;
5. The name, address, and telephone number of a Department representative from whom interested persons may obtain additional information, including copies of the permit draft, the application, and all relevant supporting materials, including any permit application, compliance plan, permit, monitoring report, and compliance statement required pursuant to Chapter 62-213, F.A.C. (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), and all other materials available to the Department that are relevant to the permit decision;
6. A brief description of the comment procedures required by Rule 62-210.350(3), F.A.C.;
7. The time and place of any hearing that may be held, including a statement of procedure to request a hearing (unless a hearing has already been scheduled); and,
8. The procedures by which persons may petition the Administrator to object to the issuance of the proposed permit after expiration of the Administrator's 45-day review period.

[Rule 62-210.350, F.A.C.]

22. Administrative Permit Corrections.

(1) A facility owner shall notify the Department by letter of minor corrections to information contained in a permit. Such notifications shall include:

- (a) Typographical errors noted in the permit;
- (b) Name, address or phone number change from that in the permit;
- (c) A change requiring more frequent monitoring or reporting by the permittee;
- (d) Changes listed at 40 CFR 72.83(a)(1), (2), (6), (9) and (10), hereby adopted and incorporated by reference, to Title V sources subject to emissions limitations or reductions pursuant to 42 USC ss. 7651-7651o;
- (e) Changes listed at 40 CFR 72.83(a)(11), hereby adopted and incorporated by reference, to Title V sources subject to emissions limitations or reductions pursuant to 42 USC ss. 7651-7651o, provided the notification is accompanied by a copy of any EPA determination concerning the similarity of the change to those listed at Rule 62-210.360(1)(d), F.A.C.; and
- (f) Any other similar minor administrative change at the source.

(2) Upon receipt of any such notification the Department shall within 60 days correct the permit and provide a corrected copy to the owner.

(3) After first notifying the owner, the Department shall correct any permit in which it discovers errors of the types listed at Rule 62-210.360(1)(a) and (b), F.A.C., and provide a corrected copy to the owner.

(4) For Title V source permits, other than general permits, a copy of the corrected permit shall be provided to EPA and any approved local air program in the county where the facility or any part of the facility is located.

(5) The Department shall incorporate requirements resulting from issuance of a new or revised construction permit into an existing Title V source permit, if the construction permit or permit revision incorporates requirements of federally enforceable preconstruction review, and if the applicant requests at the time of application that all of the requirements of Rule 62-213.430(1), F.A.C., be complied with in conjunction with the processing of the construction permit application.

[Rule 62-210.360, F.A.C.]

23. Reports.

(3) Annual Operating Report for Air Pollutant Emitting Facility.

(a) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year.

(c) The annual operating report shall be submitted to the appropriate Department District or Department approved local air pollution control program office by March 1 of the following year unless otherwise indicated by permit condition or Department request.

[Rule 62-210.370(3), F.A.C.]

24. Circumvention. No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.

[Rule 62-210.650, F.A.C.]

25. Forms and Instructions. The forms used by the Department in the stationary source control program are adopted and incorporated by reference in this section. The forms are listed by rule number, which is also the form number, with the subject, title and effective date. Forms 62-210.900(1),(3),(4) and (5), F.A.C., including instructions, are available from the Department as hard-copy documents or executable files on computer diskettes. Copies of forms (hard-copy or diskette) may be obtained by writing to the Department of Environmental Protection, Division of Air Resources Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Notwithstanding the requirement of Rule 62-4.050(2), F.A.C., to file application forms in quadruplicate, if an air permit application is submitted using the Department's electronic application form, only one copy of the diskette and signature pages is required to be submitted.

(1) Application for Air Permit - Title V Source, Form and Instructions (Effective 2-11-99).

(a) Acid Rain Part (Phase II), Form and Instructions (Effective 7-1-95).

1. Repowering Extension Plan, Form and Instructions (Effective 7-1-95).
2. New Unit Exemption, Form and Instructions (Effective 7-1-95).
3. Retired Unit Exemption, Form and Instructions (Effective 7-1-95).
4. Phase II NOx Compliance Plan, Form and Instructions (Effective 1-6-98).
5. Phase II NOx Averaging Plan, Form (Effective 1-6-98).

(b) Reserved.

(5) Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions (Effective 2-11-99).

[Rule 62-210.900, F.A.C.]

Chapter 62-213, F.A.C.

26. Annual Emissions Fee. Each Title V source permitted to operate in Florida must pay between January 15 and March 1 of each year, upon written notice from the Department, an annual emissions fee in accordance with Rule 62-213.205, F.A.C., and the appropriate form and associated instructions.

[Rules 62-213.205 and 62-213.900(1), F.A.C.]

27. Annual Emissions Fee. Failure to pay timely any required annual emissions fee, penalty, or interest constitutes grounds for permit revocation pursuant to Rule 62-4.100, F.A.C.

[Rule 62-213.205(1)(g), F.A.C.]

28. Annual Emissions Fee. Any documentation of actual hours of operation, actual material or heat input, actual production amount, or actual emissions used to calculate the annual emissions fee shall be retained by the owner for a minimum of five (5) years and shall be made available to the Department upon request.

[Rule 62-213.205(1)(j), F.A.C.]

29. Annual Emissions Fee. A completed DEP Form 62-213.900(1), F.A.C., "Major Air Pollution Source Annual Emissions Fee Form", must be submitted by the responsible official with the annual emissions fee.

[Rule 62-213.205(1)(k), F.A.C.]

APPENDIX TV-3, TITLE V CONDITIONS (version dated 04/30/99) (continued)

30. **Air Operation Permit Fees.** After December 31, 1992, no permit application processing fee, renewal fee, modification fee or amendment fee is required for an operation permit for a Title V source.

[Rule 62-213.205(4), F.A.C.]

31. **Permits and Permit Revisions Required.** All Title V sources are subject to the permit requirements of Chapter 62-213, F.A.C.

(1) No Title V source may operate except in compliance with Chapter 62-213, F.A.C.

(2) Except as provided in Rule 62-213.410, F.A.C., no source with a permit issued under the provisions of this chapter shall make any changes in its operation without first applying for and receiving a permit revision if the change meets any of the following:

- (a) Constitutes a modification;
- (b) Violates any applicable requirement;
- (c) Exceeds the allowable emissions of any air pollutant from any unit within the source;
- (d) Contravenes any permit term or condition for monitoring, testing, recordkeeping, reporting or of a compliance certification requirement;
- (e) Requires a case-by-case determination of an emission limitation or other standard or a source specific determination of ambient impacts, or a visibility or increment analysis under the provisions of Chapters 62-212 or 62-296, F.A.C.;
- (f) Violates a permit term or condition which the source has assumed for which there is no corresponding underlying applicable requirement to which the source would otherwise be subject;
- (g) Results in the trading of emissions among units within a source except as specifically authorized pursuant to Rule 62-213.415, F.A.C.
- (h) Results in the change of location of any relocatable facility identified as a Title V source pursuant to paragraph (a)-(e), (g) or (h) of the definition of "major source of air pollution" at Rule 62-210.200, F.A.C.
- (i) Constitutes a change at an Acid Rain Source under the provisions of 40 CFR 72.81(a)(1),(2), or (3), (b)(1) or (b)(3), hereby incorporated by reference;
- (j) Constitutes a change in a repowering plan, nitrogen oxides averaging plan, or nitrogen oxides compliance deadline extension at an Acid Rain Source.
- (k) Is a request for exemption pursuant to Rule 62-214.340, F.A.C.

[Rule 62-213.400(1) & (2), F.A.C.]

32. **Changes Without Permit Revision.** Title V sources having a valid permit issued pursuant to Chapter 62-213, F.A.C., may make the following changes without permit revision, provided that sources shall maintain source logs or records to verify periods of operation in each alternative method of operation:

- (1) Permitted sources may change among those alternative methods of operation allowed by the source's permit as provided by the terms of the permit;
- (2) Permitted sources may implement the terms or conditions of a new or revised construction permit if;
 - (a) The application for construction permit complied with the requirements of Rule 62-213.420(3) and (4), F.A.C.;
 - (b) The terms or conditions were subject to federally enforceable preconstruction review pursuant to Chapter 62-212, F.A.C.; and,
 - (c) The new or revised construction permit was issued after the Department and the applicant complied with all the requirements of Rule 62-213.430(1), F.A.C.;
- (3) A permitted source may implement operating changes after the source submits any forms required by any applicable requirement and provides the Department and EPA with at least 7 days written notice prior to implementation. The source and the Department shall attach each notice to the relevant permit;
 - (a) The written notice shall include the date on which the change will occur, and a description of the change within the permitted source, the pollutants emitted and any change in emissions, and any term or condition becoming applicable or no longer applicable as a result of the change;
 - (b) The permit shield described in Rule 62-213.460, F.A.C., shall not apply to such changes;
- (4) Permitted sources may implement changes involving modes of operation only in accordance with Rule 62-213.415, F.A.C.

[Rule 62-213.410, F.A.C.]

33. **Immediate Implementation Pending Revision Process.**

(1) Those permitted Title V sources making any change that constitutes a modification pursuant to the definition of modification at Rule 62-210.200, F.A.C., but which would not constitute a modification pursuant to 42 USC 7412(a) or to 40 CFR 52.01, 60.2, or 61.15, adopted and incorporated by reference at Rule 62-204.800, F.A.C., may implement such change prior to final issuance of a permit revision in accordance with this section, provided the change:

- (a) Does not violate any applicable requirement;
- (b) Does not contravene any permit term or condition for monitoring, testing, recordkeeping or reporting, or any compliance certification requirement;

- (c) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination of ambient impacts, or a visibility or increment analysis under the provisions of Chapter 62-212 or 62-296, F.A.C.;
 - (d) Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject including any federally enforceable emissions cap or federally enforceable alternative emissions limit.
- (2) A Title V source may immediately implement such changes after they have been incorporated into the terms and conditions of a new or revised construction permit issued pursuant to Chapter 62-212, F.A.C., and after the source provides to EPA, the Department, each affected state and any approved local air program having geographic jurisdiction over the source, a copy of the source's application for operation permit revision. The Title V source may conform its application for construction permit to include all information required by Rule 62-213.420, F.A.C., in lieu of submitting separate application forms.
- (3) The Department shall process the application for operation permit revision in accordance with the provisions of Chapter 62-213, F.A.C., except that the Department shall issue a draft permit revision or a determination to deny the revision within 60 days of receipt of a complete application for operation permit revision or, if the Title V source has submitted a construction permit application conforming to the requirements of Rule 62-213.420, F.A.C., the Department shall issue a draft permit or a determination to deny the revision at the same time the Department issues its determination on issuance or denial of the construction permit application. The Department shall not take final action until all the requirements of Rule 62-213.430(1)(a), (c), (d), and (e), F.A.C., have been complied with.
- (4) Pending final action on the operation permit revision application, the source shall implement the changes in accordance with the terms and conditions of the source's new or revised construction permit.
- (5) The permit shield described in Rule 62-213.460, F.A.C., shall not apply to such changes until after the Department takes final action to issue the operation permit revision.
- (6) If the Department denies the source's application for operation permit revision, the source shall cease implementation of the proposed changes.
- [Rule 62-213.412, F.A.C.]

34. Permit Applications.

- (1) Duty to Apply. For each Title V source, the owner or operator shall submit a timely and complete permit application in compliance with the requirements of Rules 62-213.420, 62-4.050(1) & (2), and 62-210.900, F.A.C.
- (a) Timely Application.
 - 3. For purposes of permit renewal, a timely application is one that is submitted in accordance with Rule 62-4.090, F.A.C.
 - (b) Complete Application.
 - 1. Any applicant for a Title V permit, permit revision or permit renewal must submit an application on DEP Form No. 62-210.900(1), which must include all the information specified by Rule 62-213.420(3), F.A.C., except that an application for permit revision must contain only that information related to the proposed change. The applicant shall include information concerning fugitive emissions and stack emissions in the application. Each application for permit, permit revision or permit renewal shall be certified by a responsible official in accordance with Rule 62-213.420(4), F.A.C.
 - 2. For those applicants submitting initial permit applications pursuant to Rule 62-213.420(1)(a)1., F.A.C., a complete application shall be an application that substantially addresses all the information required by the application form number 62-210.900(1), and such applications shall be deemed complete within sixty days of receipt of a signed and certified application unless the Department notifies the applicant of incompleteness within that time. For all other applicants, the applications shall be deemed complete sixty days after receipt, unless the Department, within sixty days after receipt of a signed application for permit, permit revision or permit renewal, requests additional documentation or information needed to process the application. An applicant making timely and complete application for permit, or timely application for permit renewal as described by Rule 62-4.090(1), F.A.C., shall continue to operate the source under the authority and provisions of any existing valid permit or Florida Electrical Power Plant Siting Certification, provided the applicant complies with all the provisions of Rules 62-213.420(1)(b)3. and 4. F.A.C. Failure of the Department to request additional information within sixty days of receipt of a properly signed application shall not impair the Department's ability to request additional information pursuant to Rules 62-213.420(1)(b)3. and 4., F.A.C.

3. For those permit applications submitted pursuant to the provisions of Rule 62-213.420(1)(a)1., F.A.C., the Department shall notify the applicant if the Department becomes aware at any time during processing of the application that the application contains incorrect or incomplete information. The applicant shall submit the corrected or supplementary information to the Department within ninety days unless the applicant has requested and been granted additional time to submit the information. Failure of an applicant to submit corrected or supplementary information requested by the Department within ninety days or such additional time as requested and granted shall render the application incomplete.

4. For all applications other than those addressed at Rule 62-213.420(1)(b)3., F.A.C., should the Department become aware, during processing of any application that the application contains incorrect information, or should the Department become aware, as a result of comment from an affected State, an approved local air program, EPA, or the public that additional information is needed to evaluate the application, the Department shall notify the applicant within 30 days. When an applicant becomes aware that an application contains incorrect or incomplete information, the applicant shall submit the corrected or supplementary information to the Department. If the Department notifies an applicant that corrected or supplementary information is necessary to process the permit, and requests a response, the applicant shall provide the information to the Department within ninety days of the Department request unless the applicant has requested and been granted additional time to submit the information or, the applicant shall, within ninety days, submit a written request that the Department process the application without the information. Failure of an applicant to submit corrected or supplementary information requested by the Department within ninety days, or such additional time as requested and granted, or to demand in writing within ninety days that the application be processed without the information shall render the application incomplete. Nothing in this section shall limit any other remedies available to the Department.

[Rules 62-213.420(1)(a)3. and 62-213.420(1)(b)1., 2., 3. & 4., F.A.C.]

35. Confidential Information. Whenever an applicant submits information under a claim of confidentiality pursuant to Section 403.111, F.S., the applicant shall also submit a copy of all such information and claim directly to EPA. (also, see Condition No. 50.) [Rule 62-213.420(2), F.A.C.]

36. Standard Application Form and Required Information. Applications shall be submitted under Chapter 62-213, F.A.C., on forms provided by the Department and adopted by reference in Rule 62-210.900(1), F.A.C. The information as described in Rule 62-210.900(1), F.A.C., shall be included for the Title V source and each emissions unit. An application must include information sufficient to determine all applicable requirements for the Title V source and each emissions unit and to evaluate a fee amount pursuant to Rule 62-213.205, F.A.C. [Rule 62-213.420(3), F.A.C.]

37. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [Rule 62-213.420(4), F.A.C.]

38. a. Permit Renewal and Expiration. Permits being renewed are subject to the same requirements that apply to permit issuance at the time of application for renewal. Permit renewal applications shall contain that information identified in Rules 62-210.900(1) and 62-213.420(3), F.A.C. Unless a Title V source submits a timely application for permit renewal in accordance with the requirements of Rule 62-4.090(1), F.A.C., the existing permit shall expire and the source's right to operate shall terminate.

b. Permit Revision Procedures. Permit revisions shall meet all requirements of Chapter 62-213, F.A.C., including those for content of applications, public participation, review by approved local programs and affected states, and review by EPA, as they apply to permit issuance and renewal, except that permit revisions for those activities implemented pursuant to Rule 62-213.412, F.A.C., need not meet the requirements of Rule 62-213.430(1)(b), F.A.C. The Department shall require permit revision in accordance with the provisions of Rule 62-4.080, F.A.C., and 40 CFR 70.7(f), whenever any source becomes subject to any condition listed at 40 CFR 70.7(f)(1), hereby adopted and incorporated by reference. The below requirements from 40 CFR 70.7(f) are adopted and incorporated by reference in Rule 62-213.430(4), F.A.C.:

o 40 CFR 70.7(f): Reopening for Cause. (also, see Condition No. 4)

(1) This section contains provisions from 40 CFR 70.7(f) that specify the conditions under which a Title V permit shall be reopened prior to the expiration of the permit. A Title V permit shall be reopened and revised under any of the following circumstances:

(i) Additional applicable requirements under the Act become applicable to a major Part 70 source with a remaining permit term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii).

(ii) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approved by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

(iii) The permitting authority or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

(iv) The Administrator or the permitting authority determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(2) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

(3) Reopenings under 40 CFR 70.7(f)(1) shall not be initiated before a notice of such intent is provided to the Part 70 source by the permitting authority at least 30 days in advance of the date that the permit is to be reopened, except that the permitting authority may provide a shorter time period in the case of an emergency.

[Rules 62-213.430(3) & (4), F.A.C.; and, 40 CFR 70.7(f)]

39. Insignificant Emissions Units or Pollutant-Emitting Activities.

(a) All requests for determination of insignificant emissions units or activities made pursuant to Rule 62-213.420(3)(m), F.A.C., shall be processed in conjunction with the permit, permit renewal or permit revision application submitted pursuant to Chapter 62-213, F.A.C. Insignificant emissions units or activities shall be approved by the Department consistent with the provisions of Rule 62-4.040(1)(b), F.A.C. Emissions units or activities which are added to a Title V source after issuance of a permit under Chapter 62-213, F.A.C., shall be incorporated into the permit at its next renewal, provided such emissions units or activities have been exempted from the requirement to obtain an air construction permit and also qualify as insignificant pursuant to Rule 62-213.430(6), F.A.C.

(b) An emissions unit or activity shall be considered insignificant if:

1. Such unit or activity would be subject to no unit-specific applicable requirement;
2. Such unit or activity, in combination with other units or activities proposed as insignificant, would not cause the facility to exceed any major source threshold(s) as defined in Rule 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s); and
3. Such unit or activity would not emit or have the potential to emit:
 - a. 500 pounds per year or more of lead and lead compounds expressed as lead;
 - b. 1,000 pounds per year or more of any hazardous air pollutant;
 - c. 2,500 pounds per year or more of total hazardous air pollutants; or
 - d. 5.0 tons per year or more of any other regulated pollutant.

[Rule 62-213.430(6), F.A.C.]

40. Permit Duration. Operation permits for Title V sources may not be extended as provided in Rule 62-4.080(3), F.A.C., if such extension will result in a permit term greater than five (5) years.

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

APPENDIX TV-3, TITLE V CONDITIONS (version dated 04/30/99) (continued)

41. Monitoring Information. All records of monitoring information shall specify the date, place, and time of sampling or measurement and the operating conditions at the time of sampling or measurement, the date(s) analyses were performed, the company or entity that performed the analyses, the analytical techniques or methods used, and the results of such analyses.
[Rule 62-213.440(1)(b)2.a., F.A.C.]

42. Retention of Records. Retention of records of all monitoring data and support information shall be for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
[Rule 62-213.440(1)(b)2.b., F.A.C.]

43. Monitoring Reports. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports.
[Rule 62-213.440(1)(b)3.a., F.A.C.]

44. Deviation from Permit Requirements Reports. The permittee shall report in accordance with the requirements of Rules 62-210.700(6) and 62-4.130, F.A.C., any deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken.
[Rule 62-213.440(1)(b)3.b., F.A.C.]

45. Reports. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), F.A.C.
[Rule 62-213.440(1)(b)3.c., F.A.C.]

46. If any portion of the final permit is invalidated, the remainder of the permit shall remain in effect.
[Rule 62-213.440(1)(d)1., F.A.C.]

47. It shall not be a defense for a permittee in an enforcement action that maintaining compliance with any permit condition would necessitate halting of or reduction of the source activity.
[Rule 62-213.440(1)(d)3., F.A.C.]

48. A Title V source shall comply with all the terms and conditions of the existing permit until the Department has taken final action on any permit renewal or any requested permit revision, except as provided at Rule 62-213.412(2), F.A.C.
[Rule 62-213.440(1)(d)4., F.A.C.]

49. A situation arising from sudden and unforeseeable events beyond the control of the source which causes an exceedance of a technology-based emissions limitation because of unavoidable increases in emissions attributable to the situation and which requires immediate corrective action to restore normal operation, shall be an affirmative defense to an enforcement action in accordance with the provisions and requirements of 40 CFR 70.6(g)(2) and (3), hereby adopted and incorporated by reference.
[Rule 62-213.440(1)(d)5., F.A.C.]

50. Confidentiality Claims. Any permittee may claim confidentiality of any data or other information by complying with Rule 62-213.420(2), F.A.C. (also, see Condition No. 35.)
[Rule 62-213.440(1)(d)6., F.A.C.]

51. Statement of Compliance. The permittee shall submit a statement of compliance with all terms and conditions of the permit. Such statements shall be submitted to the Department and EPA annually, or more frequently if specified by Rule 62-213.440(2), F.A.C., or by any other applicable requirement. Such statements shall be accompanied by a certification in accordance with Rule 62-213.420(4), F.A.C. The statement of compliance shall include all the provisions of 40 CFR 70.6(c)(5)(iii), incorporated by reference at Rule 62-204.800, F.A.C.

o 40 CFR 70.6(c)(5)(iii). The compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):

(A) The identification of each term or condition of the permit that is the basis of the certification;

(B) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required under 40 CFR 70.6(a)(3). If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;

(C) The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in paragraph (c)(5)(iii)(B) of this section. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under part 64 of this chapter occurred; and

(D) Such other facts as the permitting authority may require to determine the compliance status of the source.

The statement shall be accompanied by a certification by a responsible official, in accordance with Rule 62-213.420(4), F.A.C. The responsible official may treat compliance with all other applicable requirements as a surrogate for compliance with Rule 62-296.320(2), Objectionable Odor Prohibited.

[Rule 62-213.440(3), F.A.C.]

52. Permit Shield. Except as provided in Chapter 62-213, F.A.C., compliance with the terms and conditions of a permit issued pursuant to Chapter 62-213, F.A.C., shall be deemed compliance with any applicable requirements in effect as of the date of permit issuance, provided that the source included such applicable requirements in the permit application. Nothing in Rule 62-213.460, F.A.C., or in any permit shall alter or affect the ability of EPA or the Department to deal with an emergency, the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance, or the requirements of the Federal Acid Rain Program.

{Permitting note: The permit shield is not in effect until the effective date of the permit.}

[Rule 62-213.460, F.A.C.]

53. Forms and Instructions. The forms used by the Department in the Title V source operation program are adopted and incorporated by reference in Rule 62-213.900, F.A.C. The form is listed by rule number, which is also the form number, and with the subject, title, and effective date. Copies of forms may be obtained by writing to the Department of Environmental Protection, Division of Air Resources Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or by contacting the appropriate permitting authority.

(1) Major Air Pollution Source Annual Emissions Fee (AEF) Form.

[Rule 62-213.900(1), F.A.C.]

Chapter 62-256, F.A.C.

54. Not federally enforceable. Open Burning. This permit does not authorize any open burning nor does it constitute any waiver of the requirements of Chapter 62-256, F.A.C. Source shall comply with Chapter 62-256, F.A.C., for any open burning at the source.

[Chapter 62-256, F.A.C.]

Chapter 62-281, F.A.C.

55. Refrigerant Requirements. Any facility having refrigeration equipment, including air conditioning equipment, which uses a Class I or II substance (listed at 40 CFR 82, Subpart A, Appendices A and B), and any facility which maintains, services, or repairs motor vehicles using a Class I or Class II substance as refrigerant must comply with all requirements of 40 CFR 82, Subparts B and F, and with Rule 62-281.100, F.A.C. Those requirements include the following restrictions:

(1) Any facility having any refrigeration equipment normally containing 50 (fifty) pounds of refrigerant, or more, must keep servicing records documenting the date and type of all service and the quantity of any refrigerant added pursuant to 40 CFR 82.166;

- (2) No person repairing or servicing a motor vehicle may perform any service on a motor vehicle air conditioner (MVAC) involving the refrigerant for such air conditioner unless the person has been properly trained and certified as provided at 40 CFR 82.34 and 40 CFR 82.40, and properly uses equipment approved pursuant to 40 CFR 82.36 and 40 CFR 82.38, and complies with 40 CFR 82.42;
- (3) No person may sell or distribute, or offer for sale or distribution, any substance listed as a Class I or Class II substance at 40 CFR 82, Subpart A, Appendices A and B, except in compliance with Rule 62-281.100, F.A.C., and 40 CFR 82.34(b), 40 CFR 82.42, and/or 40 CFR 82.166;
- (4) No person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the atmosphere any Class I or Class II substance used as a refrigerant in such equipment and no other person may open appliances (except MVACs as defined at 40 CFR 82.152) for service, maintenance or repair unless the person has been properly trained and certified pursuant to 40 CFR 82.161 and unless the person uses equipment certified for that type of appliance pursuant to 40 CFR 82.158 and unless the person observes the practices set forth at 40 CFR 82.156 and 40 CFR 82.166;
- (5) No person may dispose of appliances (except small appliances, as defined at 40 CFR 82.152) without using equipment certified for that type of appliance pursuant to 40 CFR 82.158 and without observing the practices set forth at 40 CFR 82.156 and 40 CFR 82.166;
- (6) No person may recover refrigerant from small appliances, MVACs and MVAC-like appliances (as defined at 40 CFR 82.152), except in compliance with the requirements of 40 CFR 82, Subpart F.
- [40 CFR 82; and, Chapter 62-281, F.A.C. (Chapter 62-281, F.A.C., is not federally enforceable)]

Chapter 62-296, F.A.C.

56. Industrial, Commercial, and Municipal Open Burning Prohibited. Open burning in connection with industrial, commercial, or municipal operations is prohibited, except when:

- (a) Open burning is determined by the Department to be the only feasible method of operation and is authorized by an air permit issued pursuant to Chapter 62-210 or 62-213, F.A.C.; or
- (b) An emergency exists which requires immediate action to protect human health and safety; or
- (c) A county or municipality would use a portable air curtain incinerator to burn yard trash generated by a hurricane, tornado, fire or other disaster and the air curtain incinerator would otherwise be operated in accordance with the permitting exemption criteria of Rule 62-210.300(3), F.A.C.

[Rule 62-296.320(3), F.A.C.]

58. Unconfined Emissions of Particulate Matter.

(4)(c)1. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any emissions unit whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emission.

- 3. Reasonable precautions may include, but shall not be limited to the following:
 - a. Paving and maintenance of roads, parking areas and yards.
 - b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
 - c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar emissions units.
 - d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the emissions unit to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
 - e. Landscaping or planting of vegetation.
 - f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
 - g. Confining abrasive blasting where possible.
 - h. Enclosure or covering of conveyor systems.

4. In determining what constitutes reasonable precautions for a particular facility, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rules 62-296.320(4)(c)1., 3., & 4. F.A.C.]

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TABLE 297.310-1 CALIBRATION SCHEDULE
(version dated 10/7/96)

[Note: This table is referenced in Rule 62-297.310, F.A.C.]

ITEM	MINIMUM CALIBRATION FREQUENCY	REFERENCE INSTRUMENT	TOLERANCE
Liquid in glass thermometer	Annually	ASTM Hg in glass ref. thermometer or equivalent, or thermometric points	+/-2%
Bimetallic thermometer	Quarterly	Calib. liq. in glass thermometer	5 degrees F
Thermocouple	Annually	ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer	5 degrees F
Barometer	Monthly	Hg barometer or NOAA station	+/-1% scale
Pitot Tube	When required or when damaged	By construction or measurements in wind tunnel D greater than 16" and standard pitot tube	See EPA Method 2, Fig. 2-2 & 2-3
Probe Nozzles	Before each test or when nicked, dented, or corroded	Micrometer	+/-0.001" mean of at least three readings Max. deviation between readings .004"
Dry Gas Meter and Orifice Meter	1. Full Scale: When received, When 5% change observed, Annually 2. One Point: Semiannually 3. Check after each test series	Spirometer or calibrated wet test or dry gas test meter	2%
		Comparison check	5%

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

MULBERRY PHOSPHATES, INC.
MULBERRY FERTILIZER COMPLEX

FINAL Permit No.: 1050048-001-AV
Facility ID No.: 1050048

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

E.U. ID No. Brief Description
2 SULFURIC ACID PLANT (DOUBLE CONTACT)

Pollutant Name	Fuel(s)	Hours/Year	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
			Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
SO2	SULFUR	8760	4 LB/TON 100% ACID	283.3	1,240.8			62-296.402(2)FAC	Section A
ACID MIST	SULFUR	8760	0.15 LB/TON 100% ACID	10.6	46.4			62-296.402(2)FAC	
V.E.			10% OPACITY					62-296.402(2)FAC	

E.U. ID No. Brief Description
3, 10 PHOSPHORIC ACID PLANT (TWO TRAINS)

Pollutant Name	Fuel(s)	Hours/Year	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
			Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
FLUORIDE	N/A	8760	0.02 LB. F/TON P2O5	0.61	2.56			62-296.403(1), FAC	Section C

E.U. ID No. Brief Description
5 DAP/MAP GRANULATION PLANT

Pollutant Name	Fuel(s)	Hours/Year	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
			Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
FLUORIDE	Nat. Gas	8760	0.06 LB. F/TON P2O5 FED	11.79	51.64			62-296.403(2), F.A.C.	Section B
PARTICULATE	#2 Oil	8760		13.5	59.13			62-296.7002(b), F.A.C.	
	#6 Oil	8760						62-296.7002(b), F.A.C.	

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

E.U. ID No. Brief Description

9 Steam Generator									
Allowable Emissions						Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
Pollutant Name	Fuel(s)	Hours/Year	Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
Opacity	Nat. Gas #2 Oil	8760	20%/27% for 6 min/hour					62-296.406(1), F.A.C. 62-296.406(1), F.A.C.	Section D

E.U. ID No. Brief Description

11-16 Molten Sulfur Storage/Handling									
Allowable Emissions						Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
Pollutant Name	Fuel(s)	Hours/Year	Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
V.E.	n/a	8760	20% n/a	n/a				62-296.411(1)(g), F.A.C.	

E.U. ID No. Brief Description

19 Phosphogypsum Disposal Stack									
Allowable Emissions						Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
Pollutant Name	Fuel(s)	Hours/Year	Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
Radon 222	n/a	8760	20pCi/m2-s	n/a	n/a			40 CFR 61, Subpart R	Section F

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Table 2-1, Summary of Compliance Requirements

MULBERRY PHOSPHATES, INC.
MULBERRY PHOSPHATE FERTILIZER COMPLEX

FINAL Permit No.: 1050048-001-AV
Facility ID No.: 1050048

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

E.U. ID No. Brief Description

2 SULFURIC ACID PLANT (DOUBLE CONTACT)

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
SO2	SULFUR	Method 8	Annual	18-Jun	1 hour(40dscf)	yes	Section A
ACID MIST	SULFUR	Method 8	Annual	18-Jun	1 hour(40dscf)	yes	Section A
V.E.		Method 9	Annual	18-Jun	1 hour	yes	Section A

E.U. ID No. Brief Description

3, 10 Prayon Phosphoric Acid Plant (North & South Trains)

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
Fluoride	N/A	Method 8	Annual	16-Sep	1 hour	no	Section C

E.U. ID No. Brief Description

5 DAP/MAP GRANULATION PLANT

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
Fluoride	Nat. Gas	Method 13A/B	Annual	7-May	1 hour(30dscf)	no	Section B
Particulate	#2 Oil	Method 5	Annual	7-May	1 hour(30dscf)	no	
Opacity	#6 Oil	Method 9	Annual	7-May	1 hour	no	

Table 2-1, Summary of Compliance Requirements

E.U. ID No. Brief Description

9 Steam Generator							
Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
Opacity	Nat. Gas #2 Oil	Method 9	Annually	18-Jan	60 min	no	Section D

E.U. ID No. Brief Description

- 11 Sulfur Handling-Truck Pit
- 12 Sulfur Handling-Railcar Pit
- 13 Sulfur Handling-Storage Tank N.
- 14 Sulfur Handling-Storage Tank SE.
- 15 Sulfur Handling-Storage Tank SW.
- 16 Sulfur Handling-Storage Tank Mid.

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
Opacity		Method 9	Permit Renewal		30 minutes	no	Section E

E.U. ID No. Brief Description

- 19 Phosphogypsum Disposal Stack

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
Radon	n/a	Method 115	Closure	n/a	n/a	no	Section F

Notes:

* The frequency base date is established for planning purposes only; see Rule 62-297.310, F.A.C.

**CMS [=] continuous monitoring system

*** MINIMUM TIME FOR COLLECTION OF 40 DSCF @ 0.5-1.0 ACFM , BUT NO LESS THAN 1 HOUR

[electronic file name: 10500482.xls]

FIGURE 1—SUMMARY REPORT—GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE (version dated 7/96)

[Note: This form is referenced in 40 CFR 60.7, Subpart A-General Provisions]

Pollutant (Circle One): SO₂ NO_x TRS H₂S CO Opacity

Reporting period dates: From _____ to _____

Company: _____

Emission Limitation: _____

Address: _____

Monitor Manufacturer: _____

Model No.: _____

Date of Latest CMS Certification or Audit: _____

Process Unit(s) Description: _____

Total source operating time in reporting period ¹: _____

Emission data summary ¹	CMS performance summary ¹
1. Duration of excess emissions in reporting period due to: a. Startup/shutdown b. Control equipment problems c. Process problems d. Other known causes e. Unknown causes 2. Total duration of excess emissions 3. Total duration of excess emissions x (100) / [Total source operating time] % ²	1. CMS downtime in reporting period due to: a. Monitor equipment malfunctions b. Non-Monitor equipment malfunctions c. Quality assurance calibration d. Other known causes e. Unknown causes 2. Total CMS Downtime 3. [Total CMS Downtime] x (100) / [Total source operating time] % ²

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 40 CFR 60.7(c) shall be submitted.

Note: On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete.

Name: _____

Signature: _____ Date: _____

Title: _____

[electronic file name: figure1.doc]

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

Stack Sampling Facilities Provided by the Owner of an Emissions Unit. This section describes the minimum requirements for stack sampling facilities that are necessary to sample point emissions units. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. Emissions units must provide these facilities at their expense. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

(a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.

(b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.

(c) Sampling Ports.

1. All sampling ports shall have a minimum inside diameter of 3 inches.

2. The ports shall be capable of being sealed when not in use.

3. The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.

4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.

5. On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.

(d) Work Platforms.

1. Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.

2. On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.

3. On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.

4. All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

(e) Access to Work Platform.

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

1. Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.

2. Walkways over free-fall areas shall be equipped with safety rails and toeboards.

(f) Electrical Power.

1. A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.

2. If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

(g) Sampling Equipment Support.

1. A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.

a. The bracket shall be a standard 3 inch x 3 inch x one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.

b. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.

c. The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.

2. A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.

3. When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

[Rule 62-297.310(6), F.A.C.]

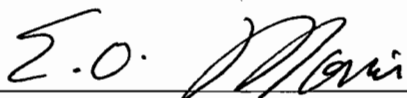
ATTACHMENT CB-FI-CV3
COMPLIANCE REPORT AND PLAN

ATTACHMENT CB-FI-CV3**COMPLIANCE REPORT AND PLAN**

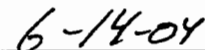
Cargill Fertilizer, LLC certifies that the Bartow facility, as of the date of this application, is in compliance with each applicable requirement addressed in this Title V air permit application.

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Compliance statements for this facility will be submitted on an annual basis to FDEP, before March 1st of each year.



Signature, Responsible Official



Date

ATTACHMENT CB-FI-CV6

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

ATTACHMENT CB-FI-CV6**REQUESTED CHANGES TO THE CURRENT TITLE V AIR OPERATION PERMIT**

Cargill requests the following changes to the Cargill Bartow (Permit No. 1050046-003-AV) and Cargill Mulberry (Permit No. 1050048-003-AV).

1. Cargill requests the incorporation of the Mulberry facility's Title V permit (Permit No. 1050048-003-AV) into the Title V permit for the Bartow facility. Both the Mulberry and Bartow facilities will operate as one facility named the Bartow facility (Facility No. 1050046). The Mulberry facility's Title V permit and facility No. 1050048 will no longer exist.
2. The Cargill Bartow facility's Nos. 4, 5, and 6 Sulfuric Acid Plants currently operate under a "Memorandum of Understanding Regarding Best Operational Start-up Practices for Sulfuric Acid Plants". This memorandum states:

"Only one sulfuric acid plant at a facility should be started up and burning sulfur at a time."

After incorporation of the Mulberry and Bartow facilities, Cargill requests that the No. 3 Sulfuric Acid Plant (located at the Mulberry facility) be allowed to startup at the same time as one of the Nos. 4, 5, or 6 Sulfuric Acid Plants (located at the Bartow facility). The No. 3 Sulfuric Acid Plant is located several miles from the Nos. 4, 5, and 6 Sulfuric Acid Plants. Furthermore, the No. 3 Sulfuric Acid Plant is currently allowed to startup at the same time as one of the Nos. 4, 5, or 6 Sulfuric Acid Plants, and therefore this request would reflect current operations.

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
- ☒ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- ☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- ☒ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Molten Sulfur Unloading, Storage and Handling System Associated with the Nos. 3, 4, 5, and 6 Sulfuric Acid Plants**

3. Emissions Unit Identification Number:
045, 046, 047, 050, and 2 EUs to be renumbered*

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 28	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:
There exists a potential for fugitive emissions of PM, PM₁₀, TRS, and SO₂, to occur from this emissions unit. It is our understanding, based on past FDEP interpretations and permitting history, that these emissions are not regulated under federal/state/local emission standards.

* Mulberry EU numbers need to be reassigned so they do not duplicate current Bartow EU numbers.

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

2. Control Device or Method Code(s):

Section [7] of [12] Molten Sulfur Handling & Storage

(Optional for unregulated emissions units.)

1. Maximum Process or Throughput Rate:	1,163,000 TPY*		
2. Maximum Production Rate:			
3. Maximum Heat Input Rate:	million Btu/hr		
4. Maximum Incineration Rate:	pounds/hr tons/day		
5. Requested Maximum Operating Schedule:			
	24 hours/day	7 days/week	
	52 weeks/year	8,760 hours/year	
6. Operating Capacity/Schedule Comment:			
	* Maximum throughput rate represents:		
	<ul style="list-style-type: none"> Maximum sulfur feed rate to Nos. 4, 5, and 6 Sulfuric Acid Plants and the No. 3 Fertilizer Plant = 960,000 TPY Maximum daily = 2,630 TPD Maximum sulfur throughput rate for the storage tank and sulfur pit associated with the No. 3 Sulfuric Acid Plant = 203,000 TPY Maximum daily = 555 TPD Total maximum annual = 960,000 TPY + 203,000 TPY = 1,163,000 TPY Total maximum daily = 2,630 TPD + 555 TPD = 3,185 TPD 		

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A Sulfur Pit, B Sulfur Pit, Stacks, Pit No. 3, Tank No. 3		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Refer to Attachment CB-EU7-C3.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 40 feet	7. Exit Diameter: 1 feet	
8. Exit Temperature: 200 °F	9. Actual Volumetric Flow Rate: 2,700 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Stack parameters are for Sulfur Pit A and Sulfur Pit B, which are identical. Refer to Attachment CB-EU7-C15 for a listing of all other stack/vent parameters.			

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Bulk Materials Unloading Operation; Sulfur		
2. Source Classification Code (SCC): 3-05-104-08		3. SCC Units: Tons Processed
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 1,163,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The maximum annual rate represents the maximum feed rate to the Nos. 4, 5, and 6 Sulfuric Acid Plants (960,000 TPY) and the maximum throughput for the storage tank and sulfur pit associated with the No. 3 Sulfuric Acid Plant (203,000 TPY). The maximum daily rate is 3,185 TPY.		

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Section [7] of [12]
Molten Sulfur Handling & Storage

List of Pollutants Emitted by Emissions Unit

[illegible]

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

POLLUTANT DETAIL INFORMATION

Page [1] of [1]
Particulate Matter-Total

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.029 lb/hour 0.13 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.03 lb/hr/1,000 tons storage capacity Reference: Permit No. 1050048-001-AV		7. Emissions Method Code: 0	
8. Calculation of Emissions: <p>Total capacity: 134,000 gal (No. 3 Storage Tank) + 8,700 gal (No. 3 Sulfur Pit) = 142,700 gal 142,700 gal x 13.6 lb/gal x 1 ton / 2,000 lb = 970.4 tons</p> <p>Hourly: 0.03 lb/hr / 1,000 tons storage capacity x 970.4 tons = 0.029 lb/hr</p> <p>Annual: 0.029 lb/hr x 8,760 hr/yr x 1 ton / 2,000 lb = 0.13 TPY</p>			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Emission limit only applies to the storage tank and sulfur pit associated with the No. 3 Sulfuric Acid Plant.			

EMISSIONS UNIT INFORMATIONSection [7] of [12]
Molten Sulfur Handling & Storage**POLLUTANT DETAIL INFORMATION**Page [1] of [1]
Particulate Matter-Total**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.03 lb/hr/1,000 tons storage capacity	4. Equivalent Allowable Emissions: 0.029 lb/hour 0.13 tons/year
5. Method of Compliance: EPA Method 9 test once every 5 years.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 1050048-001-AV. Applies only to the storage tank and sulfur pit associated with the No. 3 Sulfuric Acid Plant.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Storage & Handling

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: VE test using EPA Method 9 once every 5 years.	
5. Visible Emissions Comment: Rules 62-296.411(1)(g), F.A.C.; 62-297.310(4)(a)(2), F.A.C.; and Permit Nos. 1050046-003-AV and 1050048-001-AV.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

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Molten Sulfur Handling & Storage

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Handling & Storage

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU7-11 <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: 07/07/2003 Test Date(s)/Pollutant(s) Tested: VE--Molten Sulfur System for Nos. 4, 5, 6 SAPs <input checked="" type="checkbox"/> To be Submitted, Date (if known): Prior to June 13, 2004 Test Date(s)/Pollutant(s) Tested: VE--Molten Sulfur System for No. 3 SAP <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Storage & Handling

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: CB-EU7-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CB-EU7-IV2 <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [7] of [12]
Molten Sulfur Storage & Handling

Additional Requirements Comment

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ATTACHMENT CB-EU7-C3

DESCRIPTION OF EMISSION POINTS

ATTACHMENT CB-EU7-C3
DESCRIPTION OF EMISSIONS POINTS
MOLTEN SULFUR HANDLING

Point	Description
45	Stack 45 from West 200 ton molten sulfur pit
46	Vent 44 and 44A from 1,000 ton tank
47	Vent 43 from 3,000 ton tank
50	Stack 47 from East 300 ton molten sulfur pit
*	Truck Delivery Pit Associated with the No. 3 SAP
*	No. 3 SAP Storage Tank with 4 vents

- * Current EU numbers for these sources at Mulberry are 011 and 013 through 016. These need to be reassigned so they do not duplicate current Bartow EU numbers.

ATTACHMENT CB-EU7-C15

LIST OF OTHER STACK/VENT PARAMETERS

Attachment CB-EU7-C15. Summary of Stack/Vent Parameters for the Molten Sulfur Handling System, Cargill Bartow

Emission Unit	EU ID	Stack/Vent Height (ft)	Stack/Vent Diameter (ft)	Exit Flow Rate (acfm)	Exit Temperature (°F)
Molten Sulfur Pit (200 ton)	045	40	1.0	2,700	200
Molten Sulfur Pit (300 ton)	050	40	1.0	2,700	200
Truck Delivery Pit Assoc. with No. 3 SAP	*	10	0.67	50 ^a	200 ^b

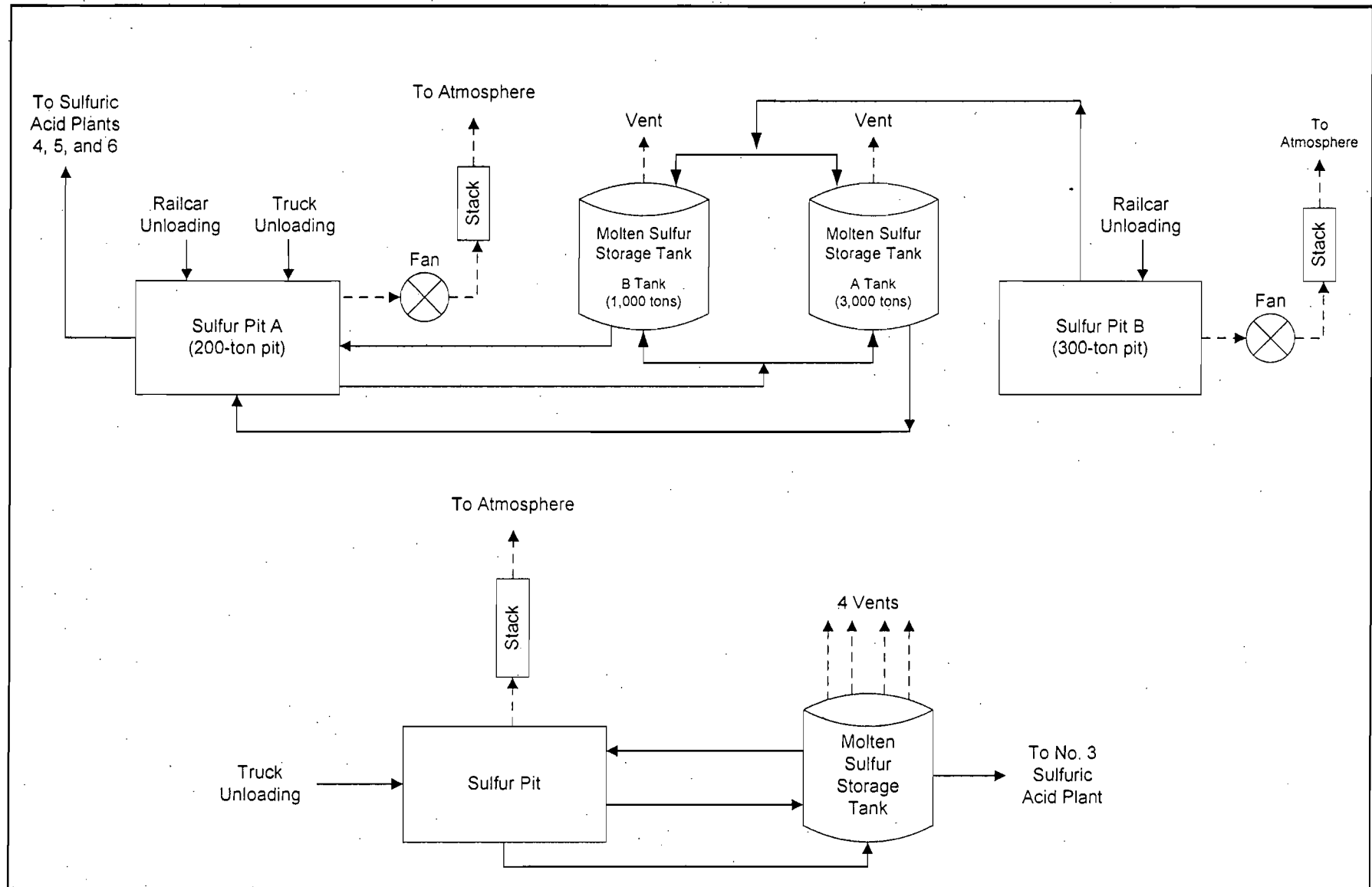
* Current EU number for this source is 011. This needs to be reassigned so they do not duplicate current EU numbers.

^a Flow rate calculated based on the maximum loading rate of 2.5 tons/min and a sulfur density of 13.6 lb/gal.

^b Exit temperature estimated based on the other sulfur pits.

ATTACHMENT CB-EU7-II

PROCESS FLOW DIAGRAM



Attachment CB-EU7-I1
 Molten Sulfur Storage and Handling System
 Process Flow Diagram
 Cargill Bartow

Process Flow Legend

Sulfur Flow ———→
 Gas Flow - - - - -→



ATTACHMENT CB-EU7-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT CB-EU7-IV1
IDENTIFICATION OF APPLICABLE REQUIREMENTS
MOLTEN SULFUR HANDLING AND STORAGE

List of Applicable Regulations

62-296.411(1)(a) – Sulfur Storage and Handling Facilities
62-296.411(1)(b) – Sulfur Storage and Handling Facilities
62-296.411(1)(c) – Sulfur Storage and Handling Facilities
62-296.411(1)(d) – Sulfur Storage and Handling Facilities
62-296.411(1)(e) – Sulfur Storage and Handling Facilities
62-296.411(1)(f) – Sulfur Storage and Handling Facilities
62-296.411(1)(g) – Sulfur Storage and Handling Facilities
62-296.411(1)(h) – Sulfur Storage and Handling Facilities
62-296.411(1)(i) – Sulfur Storage and Handling Facilities
62-297.310 – General Compliance Test Requirements
62-297.401 – Compliance Test Methods

ATTACHMENT CB-EU7-IV2

COMPLIANCE ASSURANCE MONITORING

ATTACHMENT CB-EU7-IV2**COMPLIANCE ASSURANCE MONITORING:****APPLICABILITY DETERMINATION****MOLTEN SULFUR HANDLING AND STORAGE****Applicability Analysis**

There is no control device associated with operation of the Molten Sulfur Handling and Storage System. Therefore, a Compliance Assurance Monitoring Plan is not required for these emission units.

Source: Golder 2004.

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

A. GENERAL EMISSIONS UNIT INFORMATION**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

☒ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

☒ This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

☐ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

☐ This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Sulfuric Acid Plant No. 3**

3. Emissions Unit Identification Number: **Unknown**

4. Emissions
Unit Status
Code:
A

5. Commence
Construction
Date:

6. Initial
Startup
Date:

7. Emissions Unit
Major Group
SIC Code:
28

8. Acid Rain Unit?
☐ Yes
☒ No

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

There exists a potential for fugitive emissions of PM/PM₁₀/SO₂/SAM/NO_x to occur from this emissions unit. It is our understanding, based on past FDEP interpretations and permitting history, that these emissions are not regulated under federal/state/local emission standards. These fugitive emissions are addressed in Emission Unit Section 10.

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
044 - Sulfuric Acid Plant - Double Contact Process
014 - Mist Eliminator - High Velocity

2. Control Device or Method Code(s): 044, 014

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	
2. Maximum Production Rate:	1,700 TPD 100% H ₂ SO ₄
3. Maximum Heat Input Rate:	million Btu/hr
4. Maximum Incineration Rate:	pounds/hr tons/day
5. Requested Maximum Operating Schedule:	
	24 hours/day 7 days/week
	52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:	

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: SAP 3		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 200 feet	7. Exit Diameter: 7.0 feet	
8. Exit Temperature: 153°F	9. Actual Volumetric Flow Rate: 77,550 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Exit temperature and flow rate updated from the last two years of stack test data.			

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate:** Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Chemical Manufacturing; Sulfuric Acid (Contact Process); Absorber at 99.5-percent Conversion		
2. Source Classification Code (SCC): 3-01-023-04		3. SCC Units: Tons 100-percent H₂SO₄
4. Maximum Hourly Rate: 70.83	5. Maximum Annual Rate: 620,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum hourly and annual rates based on the maximum permitted production rate of 1,700 TPD 100% H₂SO₄.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; In-process Fuel Use; Natural Gas		
2. Source Classification Code (SCC): 3-90-006-99		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1,000
10. Segment Comment: The plant typically experiences 4 cold startups per year.		

Section [11] of [12]
Sulfuric Acid Plant No. 3

List of Pollutants Emitted by Emissions Unit

[illegible]

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Sulfur DioxideF1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO₂	2. Total Percent Efficiency of Control:
3. Potential Emissions: 283.3 lb/hour 1,240.9 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 4 lb/ton 100% H₂SO₄ Reference: Permit No. 1050048-001-AV	7. Emissions Method Code: 0
8. Calculation of Emissions: 4 lb/ton 100% H₂SO₄ x 1,700 tons/day 100% H₂SO₄ x 1 day/24 hr = 283.3 lb/hr 283.3 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 1,240.9 TPY	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

Page [1] of [2]
Sulfur Dioxide

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 4 lb/ton 100% H₂SO₄	4. Equivalent Allowable Emissions: 283.3 lb/hour 1,240.9 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 8.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 1050048-001-AV.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
Sulfuric Acid MistF1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 10.6 lb/hour 46.4 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.15 lb/ton 100% H₂SO₄ Reference: Permit No. 1050048-001-AV	7. Emissions Method Code: 0
8. Calculation of Emissions: 0.15 lb/ton H₂SO₄ x 1,700 tons/day 100% H₂SO₄ x 1 day/24 hr = 10.6 lb/hr 10.6 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 46.4 TPY	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATIONSection [11] of [12]
Sulfuric Acid Plant No. 3**POLLUTANT DETAIL INFORMATION**Page [2] of [2]
Sulfuric Acid Mist**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.15 lb/ton 100% H₂SO₄	4. Equivalent Allowable Emissions: 10.6 lb/hour 46.4 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 8.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 1050048-001-AV.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [11] of [12]

Sulfuric Acid Plant No. 3

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual DEP Method 9 test.	
5. Visible Emissions Comment: Based on Permit No. 1050048-001-AV and 40 CFR 60.83(a)(2).	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [11] of [12]

Sulfuric Acid Plant No. 3

H. CONTINUOUS MONITOR INFORMATION**Complete if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor 1 of 1

1. Parameter Code: EM	2. Pollutant(s): SO₂
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Dupont Model Number: 460 Serial Number: 4136	
5. Installation Date: 10/28/75	6. Performance Specification Test Date: September 1981
7. Continuous Monitor Comment: Based on Permit No. 1050048-001-AV and 40 CFR 60.84.	

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [11] of [12]
Sulfuric Acid Plant No. 3

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU11-I1 <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU11-I2 <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU11-I3 <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU5-J6 <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: March 16, 2004 Test Date(s)/Pollutant(s) Tested: 02/03/04-02/04/04, SAM and SO₂ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [11] of [12]

Sulfuric Acid Plant No. 3

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: CB-EU11-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CB-EU11-IV2 <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: CB-EU11-IV3 <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [11] of [12]

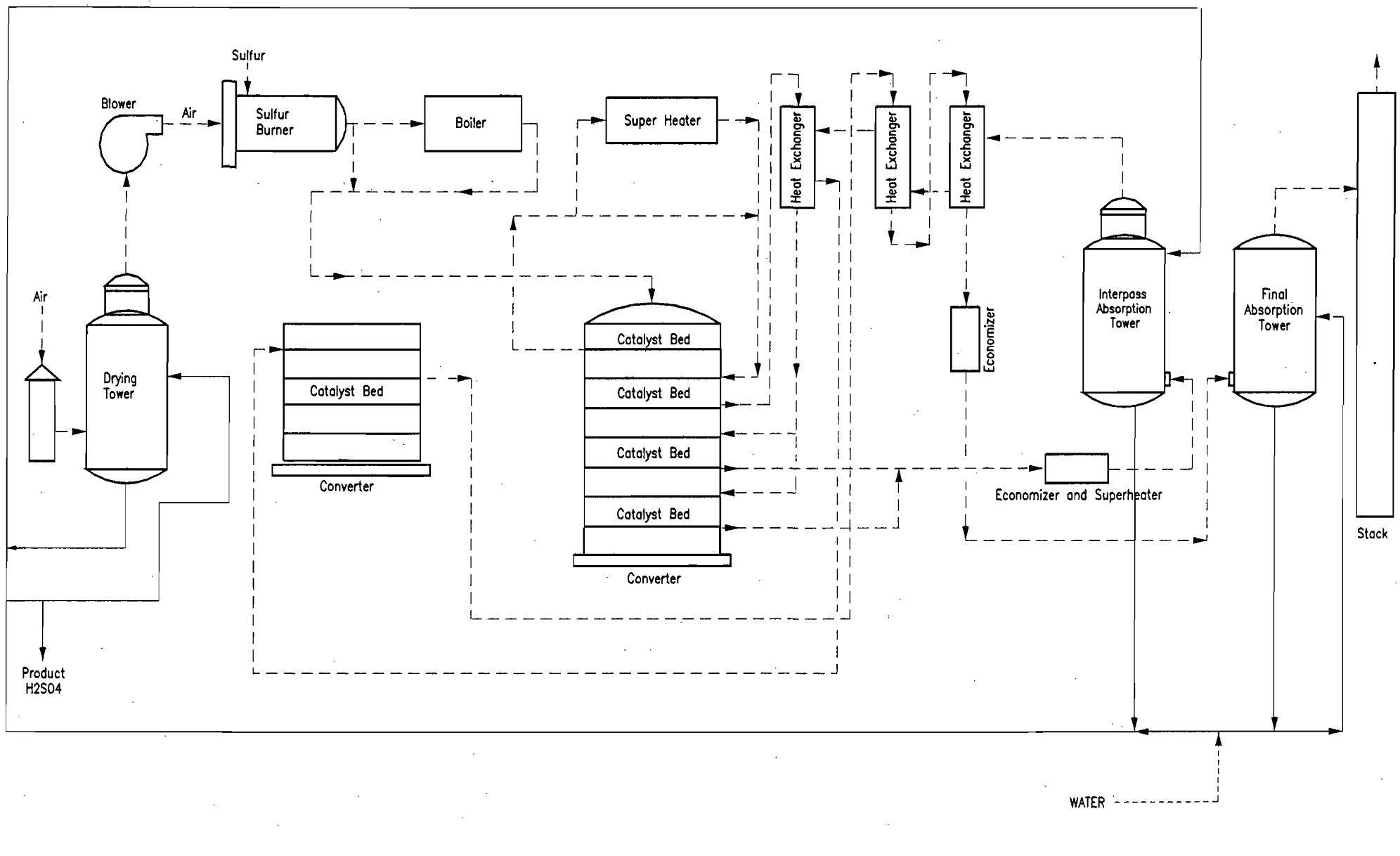
Sulfuric Acid Plant No. 3

Additional Requirements Comment

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ATTACHMENT CB-EU11-II

PROCESS FLOW DIAGRAM



-----> Gas Flow
 —————> Sulfuric Acid Flow

Attachment CB-EU11-I1
 Sulfuric Acid Plant No. 3
 Process Flow Diagram
 Cargill Bartow

EMISSION UNIT:	H ₂ SO ₄ Plants
PROCESS AREA:	H ₂ SO ₄ Production
FILENAME:	0437582\4\4.4\CB-EU11-I1.dwg
LATEST REVISION:	6-10-04

ATTACHMENT CB-EU11-I2

FUEL ANALYSIS OR SPECIFICATION

05/28/04

0437582\4\4.4\CB-EU11-I2

ATTACHMENT CB-EU11-I2

FUEL ANALYSIS

Fuel	Density (lb/scf)	Moisture (%)	Weight % Sulfur	Weight % Nitrogen	Weight % Ash	Heat Capacity
Natural Gas	0.048	<0.01	<0.001	0.62	--	1,000 Btu/scf

ATTACHMENT CB-EU11-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT CB-EU11-I3
DETAILED DESCRIPTION OF CONTROL EQUIPMENT
SULFURIC ACID PLANTS

The control equipment for this emission unit consists of two systems in series. The first system is integral to the sulfuric acid production process and is the double contact process where the SO_2 emissions from the sulfur combustion are absorbed by water in a tower. This process is at least 99 percent efficient at absorbing SO_2 . This is process equipment and not considered control equipment. The second system is a high velocity mist eliminator, which causes moisture from the double contact process to be removed from the air stream by impingement by fibers. The mist eliminators serve the dual purpose of recovering acid for use in the production of phosphoric acid and prevention of corrosion of the stack and other facility equipment. This process is at least 90 percent efficient at removing SAM from the air stream, hence recovering product.

ATTACHMENT CB-EU11-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT CB-EU11-IV1
IDENTIFICATION OF APPLICABLE REQUIREMENTS
NO. 3 SULFURIC ACID PLANT

List of Applicable Regulations

Memorandum of Understanding Regarding Best Operational Startup Practices for Sulfuric Acid Plants (10/25/89)

40 CFR 60.11(a) – Performance Tests

40 CFR 60.11(d) – Startup, Shutdown, Malfunction

40 CFR 60.11(f) – Special Provision

40 CFR 60.12 – Circumvention

40 CFR 60.12(d)

40 CFR 60.13(a)

40 CFR 60.13 (b)

40 CFR 60.13(c)

40 CFR 60.13(e)(2)

40 CFR 60.13(f)

40 CFR 60.19

40 CFR 60.7 – Notification and Recordkeeping

40 CFR 60.8 – Performance Tests

40 CFR 60.82

40 CFR 60.83

40 CFR 60.84

40 CFR 60.85

Rule 62-297.310 – General Compliance Test Requirements

Rule 40-297.401 – Compliance Test Methods

Rule 40-297.520(2) – Continuous Monitor Performance Specifications

ATTACHMENT CB-EU11-IV2

COMPLIANCE ASSURANCE MONITORING

ATTACHMENT CB-EU11-IV2
COMPLIANCE ASSURANCE MONITORING PLAN
SULFURIC ACID PLANT NO. 3

The Sulfuric Acid Plant No. 3 uses a mist eliminator to reduce sulfuric acid mist emissions. The mist eliminators serve the dual purpose of recovering acid for use in the production of phosphoric acid and prevention of corrosion of the stack and other facility equipment.

It should be noted that EPA performed a series of stack tests to develop NSPS, Subpart H. The background document describing development of Subpart H indicates that many of the facilities tested already used mist eliminators even before there was a SAM emission limit. Since there was no SAM emission limit for these facilities to meet, it is reasonable to assume the mist eliminators were there for no other reasons including acid recovery and corrosion control.

The permitted SAM emission rate is 0.15 lb/ton of sulfuric acid produced. At the permitted production rate of 1,700 TPD of acid, the permitted SAM emission rate is 255 lb/day. EPA's published emission factor for uncontrolled SAM from sulfuric acid plants is 0.35 lb/ton of sulfuric acid produced. Using this emission factor, uncontrolled SAM emissions are calculated to be 595 lb/day. The difference between the controlled and uncontrolled emission rate, 340 lb/day, is an indication of the amount of sulfuric acid recovered using the mist eliminators. Sulfuric acid is valued at approximately \$30 per ton. This equals approximately \$1,900 per year on direct product savings.

The annual capital and operating cost of the mist eliminators is \$130,000 including the cost of the mist eliminators and their maintenance. However, these mist eliminators prevent the costly corrosion of downstream process and facility equipment. The corrosion protection afforded through capture of SAM far exceeds the value of acid recovered and is well worth the capital and operating expenses of the mist eliminators.

Based on the information presented above, Cargill believes the mist eliminators should be considered inherent process equipment, and therefore, not subject to CAM requirements.

ATTACHMENT CB-EU11-IV3

ALTERNATIVE METHODS OF OPERATION

ATTACHMENT CB-EU11-IV3
ALTERNATIVE METHODS OF OPERATION
SULFURIC ACID PLANT NO. 3

The No. 3 Sulfuric Acid Plant does not normally use fossil fuels, however, when the plant is shut down and must be reheated, natural gas is burned to get the plant ready for operation again.

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
- ☒ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- ☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)
- ☒ This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Auxiliary Process Steam Boiler Associated with the Sulfuric Acid Plant No. 3**

3. Emissions Unit Identification Number: **To Be Renumbered***

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 28	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

9. Package Unit:

Manufacturer: **Nebraska**

Model Number: **NS-E-65**

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

* **Mulberry EU numbers need to be reassigned so they do not duplicate current Bartow EU numbers.**

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

A. GENERAL EMISSIONS UNIT INFORMATION**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

☒ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

☒ This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

☐ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

☐ This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Auxiliary Process Steam Boiler Associated with the Sulfuric Acid Plant No. 3**

3. Emissions Unit Identification Number: **Unknown**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 28	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:

Manufacturer: **Nebraska**

Model Number: **NS-E-65**

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

2. Control Device or Method Code(s):

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: 93.2 million Btu/hr		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
24 hours/day		7 days/week
52 weeks/year		8,760 hours/year
6. Operating Capacity/Schedule Comment: The maximum heat input rate of 93.2 MMBtu/hr represents the maximum heat input rate while burning natural gas. The maximum heat input rate while burning No. 2 fuel oil is 89.8 MMBtu/hr. No. 2 fuel oil can not be burned for more than 400 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Aux Boiler No. 3		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 25 feet	7. Exit Diameter: 4.75 feet	
8. Exit Temperature: 349 °F	9. Actual Volumetric Flow Rate: 30,000 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate:** Segment 1 of 2

1. Segment Description (Process/Fuel Type): External Combustion Boilers; Industrial; Natural Gas; 10 - 100 MMBtu/hr		
2. Source Classification Code (SCC): 1-02-006-02		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate: 0.0932	5. Maximum Annual Rate: 816.43	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1,000
10. Segment Comment: Maximum annual rate based on 93,200 cubic feet/hr.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): External Combustion Boilers; Industrial; Distillate Oil; Grades 1 and 2 Oil		
2. Source Classification Code (SCC): 1-02-005-01		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 0.625	5. Maximum Annual Rate: 250	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 143.7
10. Segment Comment: Maximum annual rate based on 625 gallons/hr of fuel oil and an annual limitation of 400 hr/yr.		

EMISSIONS UNIT INFORMATIONSection [12] of [12]
Auxiliary Boiler**POLLUTANT DETAIL INFORMATION**Page [1] of [1]
Sulfur Dioxide**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS****(Optional for unregulated emissions units.)****Potential/Estimated Fugitive Emissions**

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO₂		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 44.4 lb/hour 8.9 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.5% Sulfur Content Fuel Oil Reference: Permit No. 1050048-001-AV		7. Emissions Method Code: 1	
8. Calculation of Emissions: No. 2 Fuel Oil: Hourly: $(142 \times 0.5) \text{ lb/1,000 gal} \times 625 \text{ gal/hr} = 44.4 \text{ lb/hr}$ Annual: $44.4 \text{ lb/hr} \times 400 \text{ hr/yr} \times 1 \text{ ton/2,000 lb} = 8.9 \text{ TPY}$ Natural Gas: Hourly: $0.6 \text{ lb/MMscf} \times 0.0932 \text{ MMcf/hr} = 0.056 \text{ lb/hr}$ Annual: $0.056 \text{ lb/hr} \times 8,760 \text{ hr/yr} \times 1 \text{ ton/2,000 lb} = 0.25 \text{ TPY}$ Maximum = 44.4 lb/hr and 8.9 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Emission factors based on AP-42 Table 1.3-1 (No. 2 fuel oil) and AP-42 Table 1.4-2 (Natural gas). Maximum sulfur content is 0.5 percent.			

EMISSIONS UNIT INFORMATION

Section [12] of [12]
Auxiliary Boiler

POLLUTANT DETAIL INFORMATION

Page [1] of [1]
Sulfur DioxideF2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.5% sulfur fuel oil	4. Equivalent Allowable Emissions: 44.4 lb/hour 8.9 tons/year
5. Method of Compliance: Fuel records.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 1050048-001-AV.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [12] of [12]

Auxiliary Boiler

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: Annual EPA Method 9 test.	
5. Visible Emissions Comment: The VE test is required only if No. 2 fuel oil is burned for more than 400 hours in the previous 12-month period and is not expected to be burned for more than 400 hours during the next 12 months. Based on Permit No. 1050048-001-AV and Rules 62-297.310(7)(a)5., and 62-297.310(4)(a)2, F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [12] of [12]

Auxiliary Boiler

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [12] of [12]

Auxiliary Boiler

I. EMISSIONS UNIT ADDITIONAL INFORMATION**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU12-11 <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: CB-EU12-12 <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: 2/10/03 Test Date(s)/Pollutant(s) Tested: VE Exemption <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [12] of [12]

Auxiliary Boiler

Additional Requirements for Air Construction Permit Applications

- | |
|---|
| 1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

- | |
|---|
| 1. Identification of Applicable Requirements
<input checked="" type="checkbox"/> Attached, Document ID: CB-EU12-IV1 <input type="checkbox"/> Not Applicable |
| 2. Compliance Assurance Monitoring
<input checked="" type="checkbox"/> Attached, Document ID: CB-EU12-IV2 <input type="checkbox"/> Not Applicable |
| 3. Alternative Methods of Operation
<input checked="" type="checkbox"/> Attached, Document ID: CB-EU12-IV3 <input type="checkbox"/> Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading)
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 5. Acid Rain Part Application
<input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1)
<input type="checkbox"/> Copy Attached, Document ID: _____
<input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a))
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Previously Submitted, Date: _____
<input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Previously Submitted, Date: _____
<input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.)
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Previously Submitted, Date: _____
<input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Previously Submitted, Date: _____
<input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Previously Submitted, Date: _____
<input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Previously Submitted, Date: _____
<input checked="" type="checkbox"/> Not Applicable |

EMISSIONS UNIT INFORMATION

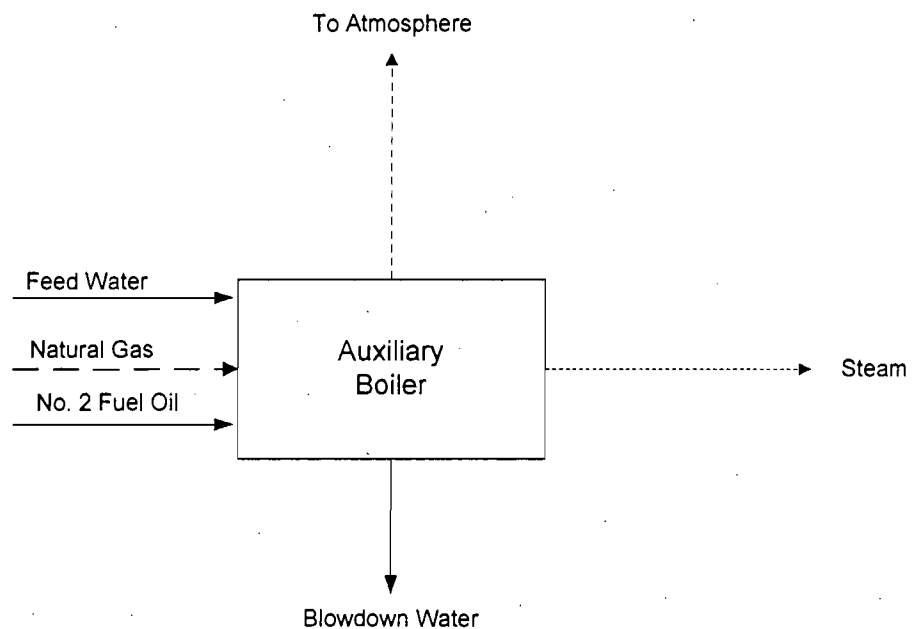
Section [12] of [12]
Auxiliary Boiler

Additional Requirements Comment

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ATTACHMENT CB-EU12-I1

PROCESS FLOW DIAGRAM



Attachment CB-EU12-I1
Auxiliary Boiler Associated with the No. 3 Sulfuric Acid Plant
Process Flow Diagram
Cargill Bartow

Process Flow Legend
Solid/Liquid ———→
Gas - - - - -→
Steam - - - - -→



ATTACHMENT CB-EU12-12

FUEL ANALYSIS OR SPECIFICATION

ATTACHMENT CB-EU12-I2

FUEL ANALYSIS

AUXILIARY BOILER

Fuel	Density (lb/scf)/ (lb/gal)	Moisture (%)	Weight % Sulfur	Weight % Nitrogen	Weight % Ash	Heat Capacity
Natural Gas	0.048	<0.01	<0.001	0.62	--	1,000 Btu/scf
No. 2 Fuel Oil	6.83	<0.01	0.5	0.18	0.02	143,700 Btu/gal

ATTACHMENT CB-EU12-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT CB-EU12-IV1
IDENTIFICATION OF APPLICABLE REQUIREMENTS
AUXILIARY BOILER

List of Applicable Regulations

62-297.310 – Compliance Testing

62-297.401 – Compliance Testing Methods

62-296.406 – Fossil Fuel Steam Generators < 250 MMBtu/hr

ATTACHMENT CB-EU12-IV2

COMPLIANCE ASSURANCE MONITORING

ATTACHMENT CB-EU12-IV2
COMPLIANCE ASSURANCE MONITORING:
APPLICABILITY DETERMINATION

AUXILIARY BOILER

Applicability Analysis

There is no control device associated with operation of the Auxiliary Boiler. Therefore, a Compliance Assurance Monitoring Plan is not required for this emission unit.

Source: Golder 2004.

ATTACHMENT CB-EU12-IV3

ALTERNATIVE METHODS OF OPERATION

ATTACHMENT CB-EU12-IV3
ALTERNATIVE METHODS OF OPERATION
AUXILIARY BOILER

The Auxiliary Boiler is permitted to burn two different fuels: natural gas and 0.5-percent sulfur No. 2 fuel oil. The heat input rate for the boiler is 93.2 MMBtu/hr while burning natural gas and 89.8 MMBtu/hr while burning No. 2 fuel oil. The boiler can burn No. 2 fuel oil for a maximum of 400 hours per year.