

April 1, 2013

Ms. Kelly Boatwright
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

RE:

Title V revision application

Mosaic Fertilizer, LLC - New Wales Plant

Facility ID No. 1050059

APR 0.1 2013
Southwest District

Dear Ms. Boatwright:

Enclosed are two copies of a permit application to revise the Title V permit for Mosaic Fertilizer, LLC's New Wales Plant in Polk County, Florida.

If you have any questions, please do not hesitate to contact me at (813)500-6478.

Sincerely,

Rama Iyer, P.E. Senior Engineer Environmental

Isbody for R. Iyer

ec: R. Yasurek, G. Baig, D. Sabatino, D. Turley, P. Thomley, S. David / Mosaic

TITLE V REVISION PERMIT APPLICATION

Incorporate various construction projects
Including BART exemption modifications

New Wales Facility

Facility ID No. 1050059

March 2013

Dept. Of Environmental Protection

APR II 1 2013

Southwest District





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 any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

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

To ensure accuracy, please see form instructions.

Identification of Facility

14	entification of Facility			
1.	Facility Owner/Company Name: Mosaic Fo	ertiliz	zer LLC	
2.	Site Name: New Wales Plant			
3.	Facility Identification Number: 1050059			
4.	Facility Location			
	Street Address or Other Locator: 3095 High	ıway	640	
	City: Mulberry County: Po	olk		Zip Code: 33860
5.	Relocatable Facility?	6.	Existing Ti	tle V Permitted Facility?
	Yes No		Yes	□ No
Ar	oplication Contact			
1.	Application Contact Name: Rama Iyer			
2.	. Application Contact Mailing Address			
	Organization/Firm: Mosaic Fertilizer LLC	\mathbb{C}		
	Street Address: 13830 Circa Crossing	Driv	e	
	City: Lithia St	ate:	FL	Zip Code: 33547
3.	Application Contact Telephone Numbers			
	Telephone: (813) 500-6478 ext.	F	Fax: (813) 571 - 6908
4.	Application Contact E-mail Address: rama	a.iyer	·@mosaicc	o.com
Application Processing Information (DEP Use)				
1.	Date of Receipt of Application: 04/01/201	3 3	. PSD Nun	nber (if applicable):
2.	Project Number(s): 1050059 - 083 - A	V 4	. Siting Nu	mber (if applicable):

APPLICATION INFORMATION	Appl of Environmental Protection
Purpose of Application	App Protection
This application for air permit is being submitted to obtain: (Check one)	Southwest District
Air Construction Permit	Ostrica
Air construction permit.	
Air construction permit to establish, revise, or renew a plantwide applicability limit (P Air construction permit to establish, revise, or renew a plantwide applicability limit (P separate air construction permit to authorize construction or modification of one or mounits covered by the PAL.	AL), and
Air Operation Permit	
Initial Title V air operation permit.	
X Title V air operation permit revision.	
Title V air operation permit renewal.	(DE)
Initial federally enforceable state air operation permit (FESOP) where professional engocertification is required.	gineer (PE)
Initial federally enforceable state air operation permit (FESOP) where professional engocertification is not required.	gineer (PE)
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	t.
Air construction permit and Title V permit renewal, incorporating the proposed project	t.
Note: By checking one of the above two boxes, you, the applicant, are requestin concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you n also check the following box:	
I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.	
Application Comment	
Application to revise Title V operating permit to incorporate changes from the following conspermits:	struction
a) 1050059-061-AC BART exemption	
 b) 1050059-072-AC – replace filter/receiver for AFI Silica storage bin c) 1050059-070-AC – SAP 1 turnaround projects 	
Attachment 1 includes detailed information on proposed changes to the Title V operating per summarizes the proposed changes to permit language; Table 2 summarizes the physical and changes that occurred at the facility.	,
The attached permit application form does not include pages for the following emission units included in the permit above because all information on the forms is unchanged from the last	

application (075-AV):

Bin (EU-026)

DAP1 (EU-009), MAP1 (EU-011), AFI (EU-027), Multifos A/B (EU-036) - permanently shut down, AFI Si

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
002	SAP1	AF2A	NA
003	SAP2	AF2A	NA
004	SAP3	AF2A	NA
044	SAP5	AF2A	NA
026	AFI Si bin	AF2B	NA
009	DAP1	AF2A	NA
011	MAP1	AF2A	NA
027	AFI	AF2A	NA
		-	

Application Processing Fee	
Check one: Attached - Amount: \$	🕱 Not Applicable

Owner/Authorized Representative Statement

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

1.	Owner/Authorized Representative Name: Ghani Baig, Environmental Man	ager	
2.	Organization/Firm: Mosaic Fertilizer, LLC Street Address: 13830 Circa Crossing Drive		
_	City: Lithia State: FL Zip Code:	33547	
3.	1		
	Telephone: (863) 844-5021 Fax: (863) 844-5450		
4.	Owner/Authorized Representative E-mail Address: ghani.baig@mosaicco.c	om	
5.	Owner/Authorized Representative Statement:		
	I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.		
	Signature Date	Replace DAP1 Cooler New Wales Facility	

Application Responsible Official Certification

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

1.	Application Responsible Official Name:
	Ron Yasurek, Plant Manager
2.	Application Responsible Official Qualification (Check one or more of the following options, as applicable):
	X For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.
	 For a partnership or sole proprietorship, a general partner or the proprietor, respectively. For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.
	The designated representative at an Acid Rain source or CAIR source.
3.	Application Responsible Official Mailing Address Organization/Firm: Mosaic Fertilizer, LLC
	Street Address: 13830 Circa Crossing Drive
	City: Lithia State: FL Zip Code: 33547
4.	Application Responsible Official Telephone Numbers Telephone: (863) 844 - 5089 ext. Fax: () -
5.	Application Responsible Official E-mail Address: ronald.yasurek@mosaicco.com
6.	Application Responsible Official Certification:
l, th	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 1

Professional Engineer Certification

Professional Engineer Name: Rama Iyer
Registration Number: 56919
Professional Engineer Mailing Address
Organization/Firm: Mosaic Fertilizer, LLC
Street Address: 13830 Circa Crossing Drive
City: Lithia State: FL Zip Code: 33547
Professional Engineer Telephone Numbers
Telephone: (813) 500 - 6478 Fax: (813) 571 - 6908
Professional Engineer E-mail Address: rama.iyer@mosaicco.com
Professional Engineer Statement:
l, the undersigned, hereby certify, except as particularly noted herein*, that:
(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.
(3) If the purpose of this application is to obtain a Title V air operation permit (check here, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.
(4) If the purpose of this application is to obtain an air construction permit (check here, 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, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.
(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here $\begin{bmatrix} \mathbf{x} \end{bmatrix}$, 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.
Danaige March 28, 2013
Signature Date
No 56919 STATE OF ORIO ONALEN

^{*} Attach any exception to certification statement.

II. FACILITY INFORMATION A. GENERAL FACILITY INFORMATION

Facility Location and	au Type				
1. Facility UTM Coordinates Zone East (km) 396.6 North (km) 3078.9			2. Facility Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
		`			
3. Governmental					
Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Cod	6. Facility SIC(s):		
		28	2874		
7. Facility Commer	nt:				
Facility Contact					
1. Facility Contact	Name: Dave Turley				
•	t Mailing Address				
	rm: Mosaic Fertilize	•			
	Street Address: 13830 Circa Crossing Drive				
	ity: Lithio	State: FL	Zip Code: 33547		
	ity: Lithia		1		
3. Facility Contact	t Telephone Numbers:		844 - 5450		
3. Facility Contact Telephone: (8	t Telephone Numbers: 663) 844 - 5201 e		844 - 5450		
3. Facility ContactTelephone: (84. Facility Contact	t Telephone Numbers: 63) 844 - 5201 e t E-mail Address:	ext. Fax: (863)8	844 - 5450		
3. Facility Contact Telephone: (8 4. Facility Contact Facility Primary Re Complete if an "ap	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: 105 105 105 105 105 105 105 105 105 105	ext. Fax: (863)8	16co, com		
3. Facility Contact Telephone: (8 4. Facility Contact Facility Primary Re Complete if an "ap facility "primary re	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: 108 109 109 109 109 109 109 109 109 109 109	ext. Fax: (863) 8	16co, com		
3. Facility Contact Telephone: (8 4. Facility Contact Facility Primary Re Complete if an "app facility "primary re	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: 105 105 105 105 105 105 105 105 105 105	ext. Fax: (863) 8	16co, com		
3. Facility Contact Telephone: (8 4. Facility Contact Facility Primary Recomplete if an "applete if an "applet	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: 168 Official 169 plication responsible 169 esponsible official. 169 Responsible Official	ext. Fax: (863) 8 Nide Turley @ Mosa official" is identified in Name:	16co, com		
3. Facility Contact Telephone: (8 4. Facility Contact Facility Primary Recomplete if an "applete if an "applet	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: 168 Official 169 plication responsible 169 esponsible official. 169 Responsible Official	ext. Fax: (863) 8 Nide Turley @ Mosa official" is identified in Name:	16co, com		
3. Facility Contact Telephone: (8 4. Facility Contact Facility Primary Re Complete if an "ap facility "primary re 1. Facility Primary 2. Facility Primary	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: esponsible Official plication responsible esponsible official." Responsible Official I Responsible Official I m:	ext. Fax: (863) 8 Nide Turley @ Mosa official" is identified in Name:	16co, com		
3. Facility Contact Telephone: (8 4. Facility Primary Re Complete if an "ap facility "primary re 1. Facility Primary Conganization/Fir Street Addres	t Telephone Numbers: 163) 844 - 5201 e t E-mail Address: esponsible Official plication responsible esponsible official." Responsible Official I Responsible Official I m:	official" is identified in Name: Mailing Address	16co, com		
3. Facility Contact Telephone: (8 4. Facility Primary Re Complete if an "ap facility "primary re 1. Facility Primary Conganization/Fir Street Address	t Telephone Numbers: 163) 844 - 5201 e 1 E-mail Address: 1 Esponsible Official 1 Plication responsible 1 Esponsible official." Responsible Official I	official" is identified in Name: Mailing Address	Section I that is not the		
3. Facility Contact Telephone: (8 4. Facility Primary Re Complete if an "ap facility "primary re 1. Facility Primary Organization/Fir Street Addres	t Telephone Numbers: 163) 844 - 5201 e The Email Address: 154 Esponsible Official 155 Plication responsible 156 Plication responsible 157 Plication responsible 158 Plication responsible 159 Plication responsible 159 Plication responsible 150 Plication r	official" is identified in Name: Mailing Address	Section I that is not the		

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

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM10	A	N
PM2.5	A	N
FL	A	N
SO2	A	N
NOX	A	N
HF	A	N
SAM	A	N
HAPs	A	N
СО	В	N
voc	В	N

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

NA

Tachity Wide	of Mutti-Chit El	пізмона Сара	114		
1. Pollutant Subject to Emissions Cap	2. Facility- Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
1					
					_
7. Facility-W	ide or Multi-Unit	Emissions Cap Con	ıment:		
		Simulations out out			

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) X Attached, Document ID: Att. 2 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) X Attached, Document ID: Att. 2 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) Attached, Document ID: Previously Submitted, Date: 2/2009
Ad	Iditional Requirements for Air Construction Permit Applications
1.	Area Map Showing Facility Location: Attached, Document ID: Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): Attached, Document ID:
3.	Rule Applicability Analysis: Attached, Document ID:
4.	List of Exempt Emissions Units: Attached, Document ID: Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification: Attached, Document ID: Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): Attached, Document ID: Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): Attached, Document ID: Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): Attached, Document ID: Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): Attached, Document ID: Not Applicable
10.	. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): Attached, Document ID: Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

1.	List of Exempt Emissions Units:
	Attached, Document ID: Not Applicable (no exempt units at facility)
Ad	Iditional Requirements for Title V Air Operation Permit Applications
1.	List of Insignificant Activities: (Required for initial/renewal applications only) Attached, Document ID: X Not Applicable (revision application)
2.	Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) Attached, Document ID: X Not Applicable (revision application with no change in applicable requirements)
3.	Compliance Report and Plan: (Required for all initial/revision/renewal applications) Attached, Document ID: Att. 2 Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4.	List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) Attached, Document ID: Equipment/Activities Onsite but Not Required to be Individually Listed Not Applicable
5.	Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) Attached, Document ID: Not Applicable
6.	Requested Changes to Current Title V Air Operation Permit: x Attached, Document ID: Att. 1, Table 1 Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1.	Acid Rain Program Forms:	
	Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):	
	Attached, Document ID: Previously Submitted, Date:	
	X Not Applicable (not an Acid Rain source)	
	Phase II NO _X Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):	
	Attached, Document ID: Previously Submitted, Date:	
	X Not Applicable	
	New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):	
	Attached, Document ID: Previously Submitted, Date:	
	X Not Applicable	
2.	CAIR Part (DEP Form No. 62-210.900(1)(b)):	
	Attached, Document ID: Previously Submitted, Date:	
	X Not Applicable (not a CAIR source)	
Ad	Iditional Requirements Comment	_

EMISSIONS UNIT INFORMATION

Section [1] of [1]

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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.

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.			
		unit addressed in this Er issions unit.	nissions Unit Inform	ation Section is an
En	issions Unit Descr	iption and Status		
1.	• 1	Unit Addressed in this	•	´
	single process of	Unit Information Section or production unit, or action which has at least one de	tivity, which produce	es one or more air
	of process or pr		vities which has at le	ngle emissions unit, a group ast one definable emission ns.
			-	ngle emissions unit, one or uce fugitive emissions only.
	Description of Emilfuric Acid Plant 1	ssions Unit Addressed i (SAP 1)	n this Section:	
3.	Emissions Unit Ide	entification Number: 002	2	
4.	Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 28
8.	Federal Program A	pplicability: (Check all	that apply)	
	☐ Acid Rain Unit ☐ CAIR Unit			
9.	. Package Unit: Manufacturer: Model Number:			
	10. Generator Nameplate Rating: MW			
11. Emissions Unit Comment: Proposed emissions limits for No. 1 SAP to meet the Best Available Retrofit Technology (BART) exemption criteria.				

EMISSIONS UNIT INFORMATION

Section [1] of [4] EU-002, SAP1

Emissions Unit Control Equipment/Method: Control	11	of 3
--	----	------

- Control Equipment/Method Description:
 Sulfuric Acid Plant Double Contact Process
- 2. Control Device or Method Code: 044

Emissions Unit Control Equipment/Method: Control 2 of 3

- 1. Control Equipment/Method Description:

 Mist Eliminator Low Velocity (V<250 ft/min)
- 2. Control Device or Method Code: 015

Emissions Unit Control Equipment/Method: Control 3 of 3

- 1. Control Equipment/Method Description:
 - Low NOx burners
- 2. Control Device or Method Code: 205

EMISSIONS UNIT INFORMATION

Section [1] of

[4] EU-002, SAP1

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: 3400 tpd 100% H ₂ SO ₄			
3.	Maximum Heat Input Rate:			
4.	Maximum Incineration Rate: pounds/hr			
	tons/day			
5.	Requested Maximum Operating Schedule:			
	24 hours/day	7 days/week		
	52 weeks/year	8760 hours/year		
6. ap	Operating Capacity/Schedule Comment: Rates based on Permit 1050059-075-AV and are not modified plication.	by this revision		

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

Plot Plan or	2. Emission Point T	Type Code: 1	
ns of Emission Ur	nits with this Emission		
6. Stack Height 200 Feet	:	7. Exit Diameter: 8.5 feet	
1		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: Emission point parameters based on permit application for 075-AV			
	Points Comprising ns of Emission Ur 6. Stack Height 200 Feet 9. Actual Volur 171,000 Acfr Tow Rate: rdinates	Points Comprising this Emissions Unit is ns of Emission Units with this Emission 6. Stack Height: 200 Feet 9. Actual Volumetric Flow Rate: 171,000 Acfm Flow Rate: 12. Nonstack Emission Feet rdinates 14. Emission Point I Latitude (DD/M) Longitude (DD/M)	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):				
Chemical Manufacturing; Sulfuric Acid; Contact Process; Absorber at 99.9% Conversion.					
2.	Source Classification Code 3-01-023-01	e (SCC):	3. SCC Units: Tons of 100% H ₂ SO ₄		
4.	Maximum Hourly Rate: 142	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10.	Segment Comment:				
Ma	aximum rates based on 3,4	400 TPD 100%	H ₂ SO ₄		
Se	gment Description and Ra	ite: Segment _	of _		
1.	Segment Description (Prod	cess/Fuel Type):			
2.	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:				

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	044	201,200	EL
SAM	044	015	EL
NOx	205		NS
			-

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totelletat, Estimated Tugitive, and Baseline of			
1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: NA		
3. Potential Emissions:	4. Synthetically Limited?		
	tons/year X Yes No		
5. Range of Estimated Fugitive Emissions (as to tons/year	; applicable):		
6. Emission Factor: 4.0 lb/ton H2SO4 (3-hr); 3 Reference: Permit 1050059-075-AV, III.A			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:		
N/A tons/year	From: To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:		
N/A tons/year			
TVA tons/year	5 years 10 years		
10. Calculation of Emissions: SO2, lb/hr = 4 lb/ton x 3400 tons/day x 1 day/24 hours = 567 lb/hr SO2, tons/yr = 496 lb/hr x 8760 hr/yr x 1 ton/2000 lbs = 2172 tpy Notes: 1. 4 lb/ton is 3-hr average limit 2. 496 lb/hr is 24-hr block average limit Per 1050059-075-AV, III.A.3.2. These limits will not be modified as a part of this permit revision.			
11. Potential, Fugitive, and Actual Emissions Comment: NA			

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1	of <u>2</u>			
Basis for Allowable Emissions Code: NSPS	2. Future Effective Date of Allowable Emissions: NA			
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
4.0 lb/ton 100% H ₂ SO ₄ , 3-hr rolling average	NA lb/hour NA tons/year			
5. Method of Compliance: CEM				
6. Allowable Emissions Comment (Description	n of Operating Method):			
Allowable Emissions Allowable Emissions 2	of <u>2</u>			
Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA			
 3. Allowable Emissions and Units: 3.5 lb/ton 100% H₂SO₄, 24-hr rolling average 	4. Equivalent Allowable Emissions: 496 lb/hour 2172 tons/year			
5. Method of Compliance: CEM				
6. Allowable Emissions Comment (Description of Operating Method):				
Allowable Emissions Allowable Emissions				
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 (Descriptio	n of Operating Method):			

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totellar, Estimated Tugitive, and Buseline & Trojected Metall Emissions				
1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control: NA			
3. Potential Emissions:	4. Synthetically Limited?			
	tons, jear			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.05 lb/ton 100% H ₂ SO ₄	7. Emissions			
Reference: Permit 1050059-061-AC	Method Code: 0			
Limit taken to meet BART exemption rec				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:			
N/A tons/year	From: To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:			
N/A tons/year	5 years 10 years			
10. Calculation of Emissions:				
SAM, lb/hr = .05 lb/ton x 3400 tons/day x 1 day/24 hours = 7.1 lb/hr SAM, tons/yr = 7.1 lb/hr x 8760 hr/yr x 1 ton/2000 lbs = 31.1 tpy				
11. Potential, Fugitive, and Actual Emissions Comment: NA				

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>				
Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA			
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
0.05 lb/ton 100% H ₂ SO ₄	7.1 lb/hour 31.1 tons/year			
5. Method of Compliance: Performance test				
6. Allowable Emissions Comment (Description	n of Operating Method):			
Allowable Emissions _ c				
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				
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):				

POLLUTANT DETAIL INFORMATION
[3] of [3] NOx

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOx	2. Total Percent Effici	ency of Control: NA	
3. Potential Emissions:		hetically Limited? Yes No	
	tono, y car		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.12 lb/ton 100% H ₂ SO ₄ Reference: Permit 1050059-075-AV, III.A		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	h Period:	
N/A tons/year	From:	To:	
9.a. Projected Actual Emissions (if required): N/A tons/year	9.b. Projected Monitor	C	
	5 years	10 years	
10. Calculation of Emissions: NOx, lb/hr = .12 lb/ton x 3400 tons/day x 1 day/24 hours = 17 lb/hr NOx, tons/yr = 17 lb/hr x 8760 hr/yr x 1 ton/2000 lbs = 75 tpy Per 1050059-075-AV, III.A.5.2. These limits will not be modified as a part of this permit revision.			
11. Potential, Fugitive, and Actual Emissions Comment: NA			

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1			
Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
0.12 lb/ton 100% H ₂ SO ₄	17 lb/hour 75 tons/year		
5. Method of Compliance: Performance test			
6. Allowable Emissions Comment (Description	n of Operating Method):		
Allowable Emissions Allowable Emissions _ o	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 (Descriptio	n of Operating Method):		
Allowable Emissions Allowable Emissions			
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 (Descriptio	n of Operating Method):		

EMISSIONS UNIT INFORMATION

Section [1]

 \mathbf{of}

[4] EU-002 SAP1

G. VISIBLE EMISSIONS INFORMATION

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

Vi	sible Emissions Limitation: Visible Emissions Limitation <u>1</u> of <u>1</u>
1.	Visible Emissions Subtype: VE10 2. Basis for Allowable Opacity:
	x Rule Other
3.	Allowable Opacity:
	Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour
	1
4.	Method of Compliance: EPA Method 9, once each Federal fiscal year
5.	Visible Emissions Comment:
.	Visite Emissions Comment.
Vi	sible Emissions Limitation: Visible Emissions Limitation of
1.	Visible Emissions Subtype: 2. Basis for Allowable Opacity:
	Rule Other
3.	Allowable Opacity:
	Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour
1	Method of Compliance:
4.	Method of Comphance:
5.	Visible Emissions Comment:

EMISSIONS UNIT INFORMATION Section [1] of [4] EU-002 SAP1

H. CONTINUOUS MONITOR INFORMATION

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

<u>Continuous Monitoring System:</u> Continuous Monitor <u>1</u> of <u>1</u>			
1. Parameter Code: SO2 CEM	2. Pollutant(s): SO2		
3. CMS Requirement:	X Rule Other		
4. Monitor Information Manufacturer:			
Model Number:	Serial Number:		
5. Installation Date:	6. Performance Specification Test Date:		
7. Continuous Monitor Comment: Required by 40cfr60 subpart H			
Continuous Monitoring System: Continuous			
Continuous Monitoring System: Continuous 1. Parameter Code:	Monitor of 2. Pollutant(s):		
 Parameter Code: CMS Requirement: 			
 Parameter Code: CMS Requirement: Monitor Information Manufacturer: 	2. Pollutant(s): Rule Other		
 Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: 	2. Pollutant(s): Rule Other Serial Number:		
 Parameter Code: CMS Requirement: Monitor Information Manufacturer: 	2. Pollutant(s): Rule Other		

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) X Attached, Document ID: Att. 2 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) Attached, Document ID: X Previously Submitted, Date 2006			
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) Attached, Document ID: Reviously Submitted, Date 2009			
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) Attached, Document ID: X Previously Submitted, Date 2009			
	☐ 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) Attached, Document ID: Previously Submitted, Date 2009			
	Not Applicable			
6.	Compliance Demonstration Reports/Records: X Attached, Document ID: Att. 2			
	Test Date(s)/Pollutant(s) Tested: Previously Submitted, Date:			
	Test Date(s)/Pollutant(s) Tested:			
	To be Submitted, Date (if known):			
	Test Date(s)/Pollutant(s) Tested:			
	☐ 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:			
	Attached, Document ID: X Not Applicable			

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):			
Attached, Document ID:	X Not Applicable		
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):			
Attached, Document ID:			
3. Description of Stack Sampling Facil only)	ities: (Required for proposed new stack sampling facilities		
Attached, Document ID:	X Not Applicable		
Additional Requirements for Title V	Air Operation Permit Applications		
1. Identification of Applicable Requirement ID: Attached, Document ID: Att. 2	uirements:		
2. Compliance Assurance Monitori Attached, Document ID:			
3. Alternative Methods of Operatio Attached, Document ID:			
4. Alternative Modes of Operation Attached, Document ID:			
Additional Requirements Comment			

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

	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.			
Em	nissions Unit Descr	iption and Status		
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)	
	single process	S Unit Information Sections or production unit, or action which has at least one de	tivity, which produces of	one or more air
	of process or pr	S Unit Information Section roduction units and active vent) but may also prod	vities which has at least	e emissions unit, a group one definable emission
		Unit Information Section r production units and a	,	e emissions unit, one or fugitive emissions only.
2. Description of Emissions Unit Addressed in this Section: Sulfuric Acid Plant 2 (SAP 2)				
		entification Number: 002	2	
	Emissions Unit Ide Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 28
4.	Emissions Unit Status Code: A	5. Commence Construction	6. Initial Startup Date: NA	Major Group
4.	Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	Major Group
4.	Emissions Unit Status Code: A Federal Program A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	Major Group
4.8.9.	Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Package Unit: Manufacturer:	5. Commence Construction Date: NA applicability: (Check all	6. Initial Startup Date: NA	Major Group
4.8.9.10.	Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Package Unit: Manufacturer: Generator Nameple	5. Commence Construction Date: NA Applicability: (Check all ate Rating: MW	6. Initial Startup Date: NA that apply)	Major Group
4. 8. 9. 10. Pro	Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Package Unit: Manufacturer: Generator Nameple Emissions Unit Co	5. Commence Construction Date: NA Applicability: (Check all ate Rating: MW Amment: Amits for No. 2 SAP to	6. Initial Startup Date: NA that apply) Model Number:	Major Group SIC Code: 28

EMISSIONS UNIT INFORMATION

Section [2] of [4] EU-003, SAP2

Emissions Unit Control Equipment/Method: Co	ontrol 1	of 3
---	-----------------	-------------

- Control Equipment/Method Description:
 Sulfuric Acid Plant Double Contact Process
- 2. Control Device or Method Code: 044

Emissions Unit Control Equipment/Method: Control 2 of 3

- Control Equipment/Method Description:
 Mist Eliminator Low Velocity (V<250 ft/min)
- 2. Control Device or Method Code: 015

Emissions Unit Control Equipment/Method: Control 3 of 3

- 1. Control Equipment/Method Description: Low NOx burners
- 2. Control Device or Method Code: **205**

EMISSIONS UNIT INFORMATION

Section [2]

of [4] EU-003, SAP2

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: 3400 tpd 100% H ₂ SO ₄			
3.	Maximum Heat Input Rate:			
4.	Maximum Incineration Rate: pounds/hr			
	tons/day			
5.	Requested Maximum Operating Schedule:			
	24 hours/day	7 days/week		
	52 weeks/year	8760 hours/year		
	Operating Capacity/Schedule Comment: Rates based on Permit 1050059-075-AV and are not modified by oplication.	y this revision		

of [4] EU-003, SAP2

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

Identification of Point on I Flow Diagram: SAP 2	Plot Plan or	2. Emission Point T	Type Code: 1	
Single stack				
Discharge Type Code: V	Stack Height200 Feet	:	7. Exit Diameter: 8.5 feet	
Exit Temperature: 170°F	9. Actual Volumetric Flow Rate: 170,000 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):		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)		
Emission point parameters based on 1050059-075-AV permit application				
	Flow Diagram: SAP 2 Descriptions of Emission I Single stack ID Numbers or Description Discharge Type Code: V Exit Temperature: 170°F Maximum Dry Standard F Dscfm Emission Point UTM Coo Zone: East (km): North (km) Emission Point Comment:	Descriptions of Emission Points Comprising Single stack ID Numbers or Descriptions of Emission Ur Discharge Type Code: V 6. Stack Height 200 Feet Exit Temperature: 9. Actual Volum 170°F 170,000 Acfu Maximum Dry Standard Flow Rate: Dscfm Emission Point UTM Coordinates Zone: East (km): North (km): Emission Point Comment:	Descriptions of Emission Points Comprising this Emissions Unit is Single stack ID Numbers or Descriptions of Emission Units with this Emission Discharge Type Code: V 6. Stack Height: 200 Feet Exit Temperature: 170°F 170,000 Acfm Maximum Dry Standard Flow Rate: Dscfm Emission Point UTM Coordinates Zone: East (km): North (km): North (km): Latitude (DD/M) Longitude (DD/M) Longitude (DD/M)	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	. Segment Description (Process/Fuel Type):					
	Chemical Manufacturing; Sulfuric Acid; Contact Process; Absorber at 99.9% Conversion.					
2.	2. Source Classification Code (SCC): 3-01-023-01 3. SCC Units: Tons of 100% H ₂ SO ₄					
4.	Maximum Hourly Rate: 142	5. Maximum A	Annual Rate:	6.	Estimated Annual Activity Factor:	
7.	Maximum % Sulfur:	8. Maximum 9	% Ash:	9.	Million Btu per SCC Unit:	
10.	Segment Comment:	l				
Ma	aximum rates based on 3,4	400 TPD 100% 1	H ₂ SO ₄			
Seg	gment Description and Ra	ite: Segment _ o	of _			
	Segment Description (Prod					
2.	Source Classification Code	e (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 [2]

of

[4] EU-003, SAP2

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Regulatory Code
044		EL
044	015	EL
205		NS
	-	
	Device Code 044 044	Device Code Device Code 044 015

POLLUTANT DETAIL INFORMATION [1] of [3] SO2

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1 otential, Estimated Fugitive, and Dasenne e	t I Tojetteu Actual Emissions	
1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: NA	
3. Potential Emissions:	4. Synthetically Limited?	
	2 tons/year X Yes No	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: 4.0 lb/ton H2SO4 (3-hr); 3	.5 lb/ton H2SO4 (24hr) 7. Emissions	
Reference: Permit 1050059-075-AV, III.A	Method Code: 0	
,		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:	
N/A tons/year	From: To:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:	
N/A tons/year	5 years 10 years	
	J years 10 years	
10. Calculation of Emissions: SO2, lb/hr = 4 lb/ton x 3400 tons/day x 1 day/24 hours = 567 lb/hr SO2, tons/yr = 496 lb/hr x 8760 hr/yr x 1 ton/2000 lbs = 2172 tpy Notes: 3. 4 lb/ton is 3-hr average limit 4. 496 lb/hr is 24-hr block average limit Per 1050059-075-AV, III.A.3.2. These limits will not be modified as a part of this permit revision. 11. Potential, Fugitive, and Actual Emissions Comment: NA		

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

Basis for Allowable Emissions Code: NSPS	2. Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
4.0 lb/ton 100% H ₂ SO ₄ , 3-hr rolling average	NA lb/hour NA tons/year
- , , , , ,	·
5. Method of Compliance: CEM	
•	
6. Allowable Emissions Comment (Description	of Operating Method):
	, ,

Allowable Emissions Allowable Emissions 2 of 2

Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA
 3. Allowable Emissions and Units: 3.5 lb/ton 100% H₂SO₄, 24-hr rolling average 	4. Equivalent Allowable Emissions: 496 lb/hour 2172 tons/year
5. Method of Compliance: CEM	
6. Allowable Emissions Comment (Description)	ion of Operating Method):

Allowable Emissions Allowable Emissions

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 (Descript	tion of Operating Method):

POLLUTANT DETAIL INFORMATION [2] of [3] SAM

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SAM	2. Total Perc	ent Efficie	ency of Control: NA
3. Potential Emissions: 7.1 lb/hour 31.	l tons/year	4. Synth	netically Limited? Yes No
5. Range of Estimated Fugitive Emissions (a to tons/year	s applicable):		
6. Emission Factor: 0.05 lb/ton 100% H ₂ SO Reference: Permit 1050059-061-AC			7. Emissions Method Code: 0
Limit taken to meet BART exemption re	quirements		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
N/A tons/year	From:	7	To:
9.a. Projected Actual Emissions (if required):	9.b. Projected	d Monitori	ng Period:
N/A tons/year	5 yea	ars 🔲 1	0 years
10. Calculation of Emissions: SAM, lb/hr = .05 lb/ton x 3400 tons/day x 1 d SAM, tons/yr = 7.1 lb/hr x 8760 hr/yr x 1 ton 11. Potential, Fugitive, and Actual Emissions C NA	/2000 lbs = 31.		
11/2			

POLLUTANT DETAIL INFORMATION [2] of [3] SAM

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

	~~ <u>~</u>		
Basis for Allowable Emissions Code: PERMIT	Future Effective Date of Allowable Emissions: NA		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
0.05 lb/ton 100% H ₂ SO ₄	7.1 lb/hour 31.1 tons/year		
5. Method of Compliance: Performance test			
6. Allowable Emissions Comment (Description	n of Operating Method):		
Allowable Emissions _ o	f_		
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	n of Operating Method):		
Allowable Emissions Allowable Emissions			
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	n of Operating Method):		

POLLUTANT DETAIL INFORMATION [3] of [3] NOx

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOx	Total Percent Efficiency of Control: NA
	4. Synthetically Limited? X Yes No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):
6. Emission Factor: 0.12 lb/ton 100% H ₂ SO ₄ Reference: Permit 1050059-075-AV, III.A	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:
N/A tons/year	From: To:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:
N/A tons/year	5 years 10 years
10. Calculation of Emissions: NOx, lb/hr = .12 lb/ton x 3400 tons/day x 1 da NOx, tons/yr = 17 lb/hr x 8760 hr/yr x 1 ton/2 Per 1050059-075-AV, III.A.5.2. These limits revision.	2000 lbs = 75 tpy
11. Potential, Fugitive, and Actual Emissions C NA	omment:

POLLUTANT DETAIL INFORMATION [3] of [3] NOx

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions	Allowable	Emissions	1	of	1

Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.12 lb/ton 100% H ₂ SO ₄	17 lb/hour 75 tons/year
5. Method of Compliance: Performance test	
6. Allowable Emissions Comment (Descripti	on of Operating Method):

Allowable Emissions _ of _

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 (Descript	ion of Operating Method):

Allowable Emissions Allowable Emissions

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

Section [2] of [4] EU-003 SAP2

G. VISIBLE EMISSIONS INFORMATION

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

<u>V I</u>	sible Emissions Limitation: Visible Emissi	ons Limitation <u>1</u> of <u>1</u>
1.	Visible Emissions Subtype:VE10	2. Basis for Allowable Opacity:
	• •	x Rule Other
3.	Allowable Opacity:	
	* *	cceptional Conditions: %
	Maximum Period of Excess Opacity Allowe	
4	Method of Compliance: EPA Method 9, o	
''	viction of compliance. Livi viction 7, 0	nee caen i ederai nscai year
5.	Visible Emissions Comment:	
		71.1.1.2
	sible Emissions Limitation: Visible Emissi	
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:
		☐ Rule ☐ Other
3.	Allowable Opacity:	
	Normal Conditions: % Ex	cceptional Conditions: %
	Maximum Period of Excess Opacity Allowe	
4.	Method of Compliance:	
' '	name or compilation	
5.	Visible Emissions Comment:	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor1 of1				
1. Parameter Code: SO2 CEM	2. Pollutant(s): SO2			
3. CMS Requirement:				
4. Monitor Information Manufacturer:				
Model Number:	Serial Number:			
5. Installation Date:	6. Performance Specification Test Date:			
7. Continuous Monitor Comment: Required by 40cfr60 subpart H				
Continuous Monitoring System: Continuous Monitor of				
Continuous Monitoring System: Continuous	Monitor of			
Continuous Monitoring System: Continuous 1. Parameter Code:	Monitor of 2. Pollutant(s):			
 Parameter Code: CMS Requirement: Monitor Information Manufacturer: 	2. Pollutant(s): Rule Other			
 Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: 	2. Pollutant(s): Rule Other Serial Number:			
 Parameter Code: CMS Requirement: Monitor Information Manufacturer: 	2. Pollutant(s): Rule Other			

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) X Attached, Document ID: Att. 2 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) Attached, Document ID: X Previously Submitted, Date 2006
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) Attached, Document ID: Reviously Submitted, Date 2009
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) Attached, Document ID: X Previously Submitted, Date 2009 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) Attached, Document ID: Not Applicable Not Applicable
6.	Compliance Demonstration Reports/Records: X Attached, Document ID: Att. 3
	Test Date(s)/Pollutant(s) Tested: Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	☐ 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:
	Attached, Document ID: X Not Applicable

Section [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):			
	X Not Applicable		
2. Good Engineering Practice Stack Height	Analysis (Rules 62-212.400(4)(d) and 62-		
212.500(4)(f), F.A.C.): Attached, Document ID:	Not Applicable		
3. Description of Stack Sampling Facilities:	(Required for proposed new stack sampling facilities		
only) Attached, Document ID:	■ Not Applicable		
Additional Requirements for Title V Air O	peration Permit Applications		
1. Identification of Applicable Requirem X Attached, Document ID: Att. 1	ents:		
Compliance Assurance Monitoring: Attached, Document ID:	🗷 Not Applicable		
3. Alternative Methods of Operation: Attached, Document ID:	🗷 Not Applicable		
4. Alternative Modes of Operation (Emi	ssions Trading): X Not Applicable		
Additional Requirements Comment			

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

★ 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. The emissions Unit Description and Status Type of 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 has at least one definable emission point (stack or vent) but may also produce fugitive emissions unit, one or more process or production units and activities which produce fugitive emissions only. Description of Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only. Description of Emissions Unit Addressed in this Section: Sulfuric Acid Plant 3 (SAP 3)	1.	or renewal Title V	Legulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised r renewal Title V air operation permit. Skip this item if applying for an air construction ermit or FESOP only.)		
Unite 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 3 (SAP 3) 3. Emissions Unit Identification Number: 002 4. Emissions Unit Identification Number: 002 4. Emissions Unit Construction Date: NA Major Group SIC Code: 28 8. Federal Program Applicability: (Check all that apply) ☐ Acid Rain Unit ☐ CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology		emissions unit.			
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 3 (SAP 3) 3. Emissions Unit Identification Number: 002 4. Emissions Unit Identification Number: 002 6. Initial Startup Date: NA Major Group SIC Code: 28 8. Federal Program Applicability: (Check all that apply) ☐ Acid Rain Unit ☐ CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology				missions Only imformation	on Section is an
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. Description of Emissions Unit Addressed in this Section: Sulfuric Acid Plant 3 (SAP 3) Emissions Unit Identification Number: 002 Acid Rain Unit CAIR Unit Package Unit: Manufacturer: Model Number: Model Number: Conservator Nameplate Rating: MW Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology	<u>En</u>	nissions Unit Descr	iption and Status		
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 3 (SAP 3) 3. Emissions Unit Identification Number: 002 4. Emissions Unit Status Code: A Commence Construction Date: NA Major Group SIC Code: 28 8. Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit 9. Package Unit: Model Number: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology	1.	Type of Emissions	Unit Addressed in this	Section: (Check one)	
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 3 (SAP 3) 3. Emissions Unit Identification Number: 002 4. Emissions Unit Status Code: A Commence Construction Date: NA Major Group SIC Code: 28 8. Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology		single process	or production unit, or ac	tivity, which produces of	one or more air
more process or production units and activities which produce fugitive emissions only. 2. Description of Emissions Unit Addressed in this Section: Sulfuric Acid Plant 3 (SAP 3) 3. Emissions Unit Identification Number: 002 4. Emissions Unit Status Code: A Construction Date: NA Major Group SIC Code: 28 8. Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology		of process or pr	roduction units and activ	vities which has at least	
3. Emissions Unit Identification Number: 002 4. Emissions Unit Status Code: A Construction Date: NA 8. Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Identification Number: 002 6. Initial Startup Date: NA Major Group SIC Code: 28 7. Emissions Unit Major Group SIC Code: 28 Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology					
4. Emissions Unit Status Code: A Construction Date: NA 8. Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit: 9. Package Unit: Manufacturer: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology		*		n this Section:	
Status Code: A Construction Date: NA Major Group SIC Code: 28 8. Federal Program Applicability: (Check all that apply) Acid Rain Unit CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology	3.	Emissions Unit Ide	entification Number: 002	2	
Acid Rain Unit CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology	4.		Construction	_	Major Group
CAIR Unit 9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology	8.	Federal Program A	applicability: (Check all	that apply)	
9. Package Unit: Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology		☐ Acid Rain Unit	t		
Manufacturer: Model Number: 10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology		CAIR Unit			
11. Emissions Unit Comment: Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology					
Proposed emissions limits for No. 3 SAP to meet the Best Available Retrofit Technology					
(BART) exemption criteria are already incorporated in 1050059-075-AV.				meet the Best Availabl	le Retrofit Technology

EMISSIONS UNIT INFORMATION Section [3] of [4] EU-004, SAP3

Emissions	Unit (Control :	quipment/Method:	Control 1	of 3
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1.	Control Equipment/Method Description:
	Sulfuric Acid Plant – Double Contact Process
2	Control Device or Method Code: 044
۷٠	Control Device of Method Code, 044

Emissions Unit Control Equipment/Method: Control 2 of 3

Control Equipment/Method Description:
 Mist Eliminator – Low Velocity (V<250 ft/min)

2. Control Device or Method Code: 015

Emissions Unit Control Equipment/Method: Control 3 of 3

1. Control Equipment/Method Description:

Low NOx burners

2. Control Device or Method Code: 205

of [4] EU-004, SAP3

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: 3400 tpd 100% H ₂ SO ₄	
3.	Maximum Heat Input Rate:	
4.	Maximum Incineration Rate: pounds/hr	
	tons/day	
5.	Requested Maximum Operating Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
	Operating Capacity/Schedule Comment: Rates based on Permit 1050059-075-AV and are not modifie plication.	d by this revision

Section [3]

of [4] EU-004, SAP3

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Flow Diagram: SAP 3	Plot Plan or	2. Emission Point	Гуре Code: 1		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Single stack 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
5. Discharge Type Code: V	6. Stack Height	:	7. Exit Diameter: 8.5 feet		
8. Exit Temperature: 170°F		metric Flow Rate:	10. Water Vapor:		
11. Maximum Dry Standard F Dscfm	11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height: Feet				
Zone: East (km): Latitud			Latitude/Longitude M/SS) MM/SS)		
15. Emission Point Comment Emission point paramet		0059-075-AV permit	t application.		

Section [3] of [4] EU-004, SAP3

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):				
	Chemical Manufacturing; Sulfuric Acid; Contact Process; Absorber at 99.9% Conversion.				
	0 01 00 0	(0,00)	2 00011		
2.	Source Classification Code 3-01-023-01	e (SCC):	3. SCC Units: Tons of 10		H_2SO_4
4.	Maximum Hourly Rate: 133.33	5. Maximum 1,168,000	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10.	Segment Comment:				
M:	aximum rates based on 3,4	400 TPD 100%	H ₂ SO ₄		
Se	gment Description and Ra	ite: Segment_	of_		
1.	Segment Description (Prod	cess/Fuel Type):			
2.	Source Classification Cod	e (SCC):	3. SCC Units:	<u> </u>	
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 [3]

 \mathbf{of}

[4] EU-004, SAP3

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	044		EL
SAM	014		EL
NOx	205		NS
	-		

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation 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: NA
3. Potential Emissions: 567 lb/hour 2172	4. Synthetically Limited? X Yes No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):
6. Emission Factor: 4.0 lb/ton H2SO4 (3-hr); 3 Reference: Permit 1050059-075-AV, III.A	` ′
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:
N/A tons/year	From: To:
9.a. Projected Actual Emissions (if required): N/A tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: SO2, lb/hr = 4 lb/ton x 3400 tons/day x 1 day SO2, tons/yr = 496 lb/hr x 8760 hr/yr x 1 ton/ Notes: 5. 4 lb/ton is 3-hr average limit 6. 496 lb/hr is 24-hr block average limit Per 1050059-075-AV, III.A.3.2. These limits revision.	will not be modified as a part of this permit
11. Potential, Fugitive, and Actual Emissions C NA	omment:

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions	Allowable	Emissions	1	of	2
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1. Basis fo NSPS	or Allowable Emissions Code:	2.	Future Effective Date Emissions: NA	of Allowable
	ble Emissions and Units: 100% H ₂ SO ₄ , 3-hr rolling average	4.	Equivalent Allowable NA lb/hour	Emissions: NA tons/year
5. Method	of Compliance: CEM			
6. Allowa	ble Emissions Comment (Description	of (Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

Basis for Allowable Emissions Code: PERMIT	Future Effective Date of Allowable Emissions: NA
 3. Allowable Emissions and Units: 3.5 lb/ton 100% H₂SO₄, 24-hr rolling average 	4. Equivalent Allowable Emissions: 496 lb/hour 2172 tons/year
5. Method of Compliance: CEM	
6. Allowable Emissions Comment (Descript	tion of Operating Method):

Allowable Emissions Allowable Emissions

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 (Descript	ion of Operating Method):

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1 otential, Estimated Fugitive, and Dascine 6	1 1 Ojected Actual Emissions
1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control: NA
3. Potential Emissions:	4. Synthetically Limited?
	I tons/year X Yes No
5. Range of Estimated Fugitive Emissions (as	
to tons/year	applicable):
6. Emission Factor: .05 lb/ton 100% H ₂ SO ₄	7. Emissions
Reference: Permit 1050059-075-AV, A.3.2	Method Code: 0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:
N/A tons/year	From: To:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:
N/A tons/year	5 years 10 years
10. Calculation of Emissions:	
SAM, lb/hr = .05 lb/ton x 3400 tons/day x 1 d SO2, tons/yr = 7.1 lb/hr x 8760 hr/yr x 1 ton//	2000 lbs = 31.1 tpy
11. Potential, Fugitive, and Actual Emissions C NA	omment:
IVA	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions	Allowable Emissions	1	of	1
---------------------	---------------------	---	----	---

Anowable Emissions 1	01 <u>1</u>
Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.05 lb/ton 100% H ₂ SO ₄	7.1 lb/hour 31.1 tons/year
5. Method of Compliance: Performance Test	
6. Allowable Emissions Comment (Description	n of Operating Method):
Allowable Emissions _ o	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	n of Operating Method):
Allowable Emissions Allowable Emissions	
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 (Descriptio	n of Operating Method):

POLLUTANT DETAIL INFORMATION [3] of [3] NOx

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Pollutant Emitted: NOx	
1. Pollulani Emilled: NOX	2. Total Percent Efficiency of Control: NA
	4 C41 -41 - 11 - 1 4- 49
3. Potential Emissions:	4. Synthetically Limited?
17 lb/hour 75	tons/year Yes XNo
5. Range of Estimated Fugitive Emissions (as	applicable):
to tons/year	
6. Emission Factor: 0.12 lb/ton 100% H2SO	7. Emissions
Reference: Permit 1050059-075-AV, A.5.3	Method Code: 0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:
N/A tons/year	From: To:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:
N/A tons/year	5 years 10 years
10. Calculation of Emissions:	
NOx, $lb/hr = .12 lb/ton x 3400 tons/day x 1 da$	ny/24 hours = 17 lb/hr
NOx, tons/yr = $17 \text{ lb/hr} \times 8760 \text{ hr/yr} \times 1 \text{ ton/}2$	v
11. Potential, Fugitive, and Actual Emissions C	omment:
NA	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1	of <u>1</u>
Basis for Allowable Emissions Code: PERMIT	2. Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units:0.12 lb/ton 100% H₂SO₄	4. Equivalent Allowable Emissions: 17 lb/hour 75 tons/year
5. Method of Compliance: Performance test	
6. Allowable Emissions Comment (Description	n of Operating Method):
Allowable Emissions Allowable Emissions	of _
1. Basis for Allowable Emissions Code:	Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	n of Operating Method):
Allowable Emissions Allowable Emissions	
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	n of Operating Method):

G. VISIBLE EMISSIONS INFORMATION

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

Vis	sible Emissions Limitation: Visible Emissi	ons Limitation <u>1</u> of <u>1</u>	
1.	Visible Emissions Subtype:VE10	2. Basis for Allowable Op	pacity:
		x Rule	Other
3.	Allowable Opacity:		
		ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe		min/hour
4.	Method of Compliance: EPA Method 9, o	nce each Federal fiscal yea	ır
5.	Visible Emissions Comment:		
Vi	sible Emissions Limitation: Visible Emissi	ons Limitation of	
	sible Emissions Limitation: Visible Emissi Visible Emissions Subtype:	ons Limitation of 2. Basis for Allowable O	pacity:
			pacity:
1.	Visible Emissions Subtype: Allowable Opacity:	2. Basis for Allowable O Rule	Other
1.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allower	2. Basis for Allowable O Rule cceptional Conditions:	Other
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allower	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allower	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allowed Method of Compliance:	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable O Rule cceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable O Rule cceptional Conditions:	Other %

EMISSIONS UNIT INFORMATION Section [3] of [4] EU-004 SAP3

H. CONTINUOUS MONITOR INFORMATION

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

<u>C</u> c	ontinuous Monitoring System: Continuous	Monitor1 of1
1.	Parameter Code: SO2 CEM	2. Pollutant(s): SO2
3.	CMS Requirement:	X Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
ı	Continuous Monitor Comment: quired by 40cfr63 subpart H	
<u>Co</u>	ontinuous Monitoring System: Continuous	Monitor of
	Parameter Code: Continuous Monitoring System: Continuous	Monitor of 2. Pollutant(s):
1.	Parameter Code: CMS Requirement:	
1.	Parameter Code: CMS Requirement: Monitor Information Manufacturer:	2. Pollutant(s): Rule Other
 3. 4. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number:	2. Pollutant(s): Rule Other Serial Number:
 3. 4. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer:	2. Pollutant(s): Rule Other

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) X Attached, Document ID: Att. 2 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) Attached, Document ID: X Previously Submitted, Date 2006
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) Attached, Document ID: Reviously Submitted, Date 2009
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) Attached, Document ID: X Previously Submitted, Date 2009 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) Attached, Document ID: Previously Submitted, Date 2009 Not Applicable
6.	Compliance Demonstration Reports/Records: X Attached, Document ID: Att. 3
	Test Date(s)/Pollutant(s) Tested: Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:
	Attached, Document ID: X Not Applicable

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

	•	(Rules 62-212.400(10) and 62-212.500(7),
-	63.43(d) and (e)):	
Attached, D	Oocument ID:	x Not Applicable
_	_	Analysis (Rules 62-212.400(4)(d) and 62-
212.500(4)(f), F		
	Oocument ID:	
only)		(Required for proposed new stack sampling facilities
Attached, D	Oocument ID:	X Not Applicable
Additional Requir	ements for Title V Air O	peration Permit Applications
	on of Applicable Requirement ID: Att. 1	ents:
_	Assurance Monitoring: Occument ID:	🗵 Not Applicable
	Methods of Operation: Occument ID:	🕱 Not Applicable
4. Alternative	Modes of Operation (Emis	ssions Trading):
	Document ID:	
Additional Requir	rements Comment	

Attachment 1

Revision Application Description

Table 1. List of Proposed Permit Modifications

Table 2. Construction Summary

Applicable Requirements

ATTACHMENT 1. Proposed Revisions to New Wales Title V permit:

We request a revision to the New Wales facility Title V permit (1050059-075-AC) to accommodate the following changes. Details are in Table 1 below.

- Incorporate permit 1050059-061-AC (BART exemption permit) new SAM limits for SAPs 1&2; minor revision to description; incorporate PSD emissions reporting for 5 years following startup.
- Incorporate permit 1050059-070-AC (SAP 1 2011 turnaround) minor revision to description
- Incorporate permit 1050059-063-AC (AFI Silica storage & unloading) PSD emission reporting for 5 years following startup
- Oorrect/clarify 1050059-075-AV:
- Consolidate repetitive requirements
- Clarify excess emissions requirements
- Clarify averaging period
- Add missing references
- o Incorporate PSD emissions reporting for SAP3 (EU-004) and DAP 1 (EU-009)
- Correct listing of RICE emission units

Table 2 lists the construction activities that were completed as part of each of the above-mentioned permits.

Table 1. Permit language proposed modifications

075-AV	Old Language	New Language	Reason
FW10	None – Insert new section and re-number	FW.10 Annual Actual Emissions:	Incorporate
	following sections.	a. The permittee shall monitor the emissions of any PSD pollutant that the	annual PSD
		Department identifies could increase as a result of the construction or modification	reporting for
		and that is emitted by any emissions unit that could be affected; and, using the	permit
		most reliable information available, calculate and maintain a record of the annual	1050059-061-
		emissions, in tons per year on a calendar year basis, for a period of 5 years	AC.
		following resumption of regular operations after the change. Emissions shall be	
		computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are	
		provided in Appendix C of this permit.	
		b. The permittee shall report to the Department within 60 days after the end of each	_
		calendar year during the 5-year period setting out the unit's annual emissions	
		during the calendar year that preceded submission of the report. The report shall	
		contain the following:	
		1) The name, address and telephone number of the owner or operator of the major	
		stationary source;	

		2) The annual emissions as calculated pursuant to the provisions of 62-210.370, F.A.C.; 3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and 4) Any other information that the owner or operator wishes to include in the report. c. The information required to be documented and maintained pursuant to subparagraphs 62- 212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.	
_		The actual emissions that must be reported and the projected emissions to which they must be compared are listed in Table xxxx of this permit. [Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]	
A preamble	Sulfuric Acid Plants (SAPs) No. 1, No. 2, No. 4, and No. 5 consist of a double absorption system. Sulfuric Acid Plant (SAP) No. 3 also consists of a double absorption system. However, instead of utilizing a conventional internace absorption tower this plant utilizes.	Sulfuric Acid Plants (SAPs) No. 1, No. 2, No. 3, No. 4, and No. 5 consist of a double absorption system. Sulfuric Acid Plants (SAP) No. 3 also consists of a double absorption system. However, instead of utilizing a conventional interpass absorption tower, this plant utilizes a heat recovery system absorption tower instead of a traditional interpass absorption tower.	Shorten description and make it easier to modify as
	heat recovery system absorption tower. Sulfuric acid mist (SAM) emissions are controlled by Brownian diffusion type candles in the mist eliminator section in the final absorbing tower. The sulfur burner at SAP No. 3 was recently replaced by a like-kind sulfur furnace.	Sulfuric acid mist (SAM) emissions are controlled by Brownian diffusion type candles in the mist eliminator section in the final absorbing tower. The sulfur burner at SAP No. 3 was recently replaced by a like-kind sulfur furnace. No. 1, No. 2 and No. 3 plants produce 3400 tons per day each and No. 4 and No. 5 plants produce 2900 tons per day each of sulfuric acid (100% H2SO4 basis). Sulfuric aAcid mist (SAM) emissions are controlled by a demister in the final absorption tower. SAPs No. 1, 2, 3 demisters have Brownian diffusion type	HRS is completed for SAP 2 and 4 at the next turnarounds.
	No. 1, No. 2 and No. 3 plants produce 3400 tons per day each and No. 4 and No. 5 plants produce 2900 tons per day each of sulfuric acid (100% H2SO4 basis). Acid mist emissions are controlled by a demister.	candles.	
A.4.2	Sulfur Acid Mist (SAM) emissions shall not exceed the following for SAP Nos. 1&2: 0.10 lb/ton 100% H2 SO4 14 lb/hr 62 tpy	Sulfuric Acid Mist (SAM) emissions shall not exceed the following for SAP Nos. 1&2: 0.10 0.05 lb/ton 100% H2 SO4 14 7.1 lb/hr 62 30.7 tpy	Incorporate permit 1050059-061- AC.
		Also add citation for permit 1050059-061-AC	

D.5 None – Insert new section and re-number following sections. D.12. In order to document compliance with the process rate limitation of Condition D.1, the permittee shall maintain daily records of the amount of material processed and the total hours of process operations. E.1.a The operation rate shall not exceed 150 tons/hour of monoammonium phosphate (DAP) product. E.1.b The fuel heat input rate for the dryer shall not exceed 27.7 MMBtu/hr.			_______\
		operation and the equivalent P2O5 feed. Documentation as to how daily	records
		production rates were calculated shall be included as part of the records. This daily log shall be maintained at the facility and shall be made available to the	requirements
		Department upon request.	
	and re-number	Excess Emissions	Add here or in
		Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an	CC or in FW
		NSPS, NESHAP or Acid Rain program provision.	and renumber
		D.5 Excess Emissions Prohibited: Excess emissions caused entirely or in part by	subsequent
		poor maintenance, poor operation, or any other equipment or process failure	sections.
		that may reasonably be prevented during startup, shutdown or malfunction shall	Current
		be prohibited.	operating
		[rule 62-210.700(4), F.A.C.; construction Permit 105059-061-AC)	permit only
		D.5.1 Excess Emissions Allowed: Excess emissions resulting from startup,	includes this
		shutdown or malfunction of any emissions unit shall be permitted providing (1)	language in
		best operational practices to minimize emissions are adhered to and (2) the	section A
		duration of excess emissions shall be minimized but in no case exceed two hours	(Sulfuric Acid
		in any 24 hour period unless specifically authorized by the Department for longer	Plants)
		duration.	
		[rule 62-210.700(1), F.A.C.	
		D.5.2 Excess Emissions Notification: In case of excess emissions resulting from	
		malfunctions, the permittee shall notify the Compliance Authority in accordance	
		with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be	
		submitted in a quarterly report, if requested by the department.	
		[Rule 62-210.700(6), F.A.C	
	it compliance with	Remove; repeats D.5.e and D.5.f	Duplicated in
	of Condition D.1,		D.5.e,f and
	in daily records of		D.12
	ocessed and the		
	rations.		
	ot exceed 150	The operation rate shall not exceed 150 tons/hour (daily average) of	Clarify
	nium phosphate	monoammonium phosphate (MAP) or diammonium phosphate (DAP) product.	averaging
	osphate (DAP)		period.
	r the dryer shall not	The fuel heat input rate for the dryer shall not exceed 27.7 MMBtu/hr (daily	Clarify
		average).	averaging
			period.
following contions	and re-number	Excess Emissions Bule 62, 210, 700 (Expecs Emissions) E.A.C. cannot vary any requirement of an	Add here or in
Johnwing sections.		Naie 02-210.700 (LACESS LIIISSIOIIS), I.A.C. CAIIIOC VAI Y AII YICHAII CIIICICO AII	

		NSPS, NESHAP or Acid Rain program provision.	renumber
		poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [rule 62-210.700(4), F.A.C.; construction Permit 105059-061-AC) E.7.1 Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [rule 62-210.700(1), F.A.C. E.7.2 Excess Emissions Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department. [Rule 62-210.700(6), F.A.C.	sections
E.8	[Rule 62-297.401, F.A.C.]	[40 CFR 63.626(a)(1), Rule 62-297.401, F.A.C.]	Add MACT reference for clarity.
E.14	Federal Rule Requirements NSPS Requirement: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 60 Subpart V – Standards of Performance of Phosphate Fertilizer Industry: Diammonium Phosphate plants. However, this emissions unit is exempt from the requirements of 40 cfr 60 Subpart V if it is in compliance with 40 CFR 63 Subpart BB-National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. [Rules 62-204.800 and 62.213-440, F.A.C.; 40 cfr 63.631]	Federal Rule Requirements NSPS Requirement: In addition to the specific conditions listed above, the emissions unit is also subject to This unit is exempt from the applicable requirements contained in 40 CFR 60 Subpart V – Standards of Performance of Phosphate Fertilizer Industry: Diammonium Phosphate plants because it has demonstrated compliance with 40 CFR 63 subparts A and BB. However, this emissions unit is exempt from the requirements of 40 cfr 60 Subpart V if it is in compliance with 40 CFR 63 Subpart BB. National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. [Rules 62-204.800 and 62.213-440, F.A.C.; 40 cfr 63.631]	Clarify method of compliance with 40 cfr 60 subpart V.
E.14	NESHAP Requirements: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart	NESHAP Requirements: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart BB – National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production	Add NESHAP reference.

	A – General Provisions and 40 CFR 63 Subpart BB – National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. The NESHAP common conditions are placed in Subsections MACT A and MACT BB.	Plants. The NESHAP common conditions are placed in Subsections MACT A and MACT BB. [40 CFR 63.620(b)(1), Rules 62-204.800 and 62-214.440, F.A.C.]	
F.1.a	The operation rate for each train, East or West, shall not exceed 170 tons/hr of monoammonium phosphate (MAP) or diammonium phosphate (DAP) product {approximately 80 tons P ₂ O ₅ /hour input feed}.	The operation rate for each train, East or West, shall not exceed 170 tons/hr of monoammonium phosphate (MAP) or diammonium phosphate (DAP) product {approximately 80 tons P_2O_5 /hour input feed} as a daily average.	Clarify averaging period
F.1.b	The fuel input rate for each dryer shall not exceed 36 MMBtu/hr. None — Insert new section and re-number following sections.	The fuel input rate for each dryer shall not exceed 36 MMBtu/hr as a daily average. Excess Emissions Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision. F.10 Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. F.10.1 Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [rule 62-210.700(1), F.A.C. F.10.2 Excess Emissions Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department. [Rule 62-210.700(6), F.A.C.	Clarify averaging period Add here or in FW.6 and renumber subsequent sections
F.22	Federal Rule Requirements NSPS Requirement: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements	Federal Rule Requirements NSPS Requirement: In addition to the specific conditions listed above, the emissions unit is also subject to This unit is exempt from the applicable requirements contained in 40 CFR 60 Subpart V – Standards of Performance of	Clarify method of compliance with 40 cfr 60

	contained in 40 CFR 60 Subpart V – Standards of Performance of Phosphate Fertilizer Industry: Diammonium Phosphate plants. However, this emissions unit is exempt from the requirements of 40 cfr 60 Subpart V if it is in compliance with 40 CFR 63 Subpart BB-National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. [Rules 62-204.800 and 62.213-440, F.A.C.; 40	Phosphate Fertilizer Industry: Diammonium Phosphate plants because it has demonstrated compliance with 40 CFR 63 subparts A and BB . However, this emissions unit is exempt from the requirements of 40 cfr 60 Subpart V if it is in compliance with 40 CFR 63 Subpart BB. National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. [Rules 62-204.800 and 62.213-440, F.A.C.; 40 cfr 63.631]	subpart V.
F.22	NESHAP Requirements: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart BB – National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. The NESHAP common conditions are placed in Subsections MACT A and MACT BB. [Rules 62-204.800 and 62-214.440, F.A.C]	NESHAP Requirements: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart BB – National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. The NESHAP common conditions are placed in Subsections MACT A and MACT BB. [40 CFR 63.620(b)(1), Rules 62-204.800 and 62-214.440, F.A.C.]	Add NESHAP reference
6.1	Permitted Capacity. The MAP production rate shall not exceed 50 tons per hour. [Rule 62-4.160(2), F.A.C.; and, Rule 62-210.200, F.A.C., Definitions – (PTE)]	Permitted Capacity. The MAP production rate shall not exceed 50 tons per hour as a daily average. [Rule 62-4.160(2), F.A.C.; and, Rule 62-210.200, F.A.C., Definitions – (PTE)]	Clarify averaging period
6.14	Federal Rule Requirements NSPS Requirement: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 60 Subpart V – Standards of Performance of Phosphate Fertilizer Industry: Diammonium Phosphate plants. However, this emissions unit is exempt from the requirements of 40 cfr 60 Subpart V if it is in compliance with 40 CFR 63 Subpart BB-National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. [Rules 62-204.800 and 62.213-440, F.A.C.; 40	Federal Rule Requirements NSPS Requirement: In addition to the specific conditions listed above, the emissions unit is also subject to This unit is exempt from the applicable requirements contained in 40 CFR 60 Subpart V – Standards of Performance of Phosphate Fertilizer Industry: Diammonium Phosphate plants because it has demonstrated compliance with 40 CFR 63 subparts A and BB. However, this emissions unit is exempt from the requirements of 40 cfr 60 Subpart V if it is in compliance with 40 CFR 63 Subpart BB. National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. [Rules 62-204.800 and 62.213-440, F.A.C.; 40 cfr 63.631]	Clarify method of compliance with 40 cfr 60 subpart V.

	cfr 63.631]		
G.14	NESHAP Requirements: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart BB – National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. The NESHAP common conditions are placed in Subsections MACT A and MACT BB. [Rules 62-204.800 and 62-214.440, F.A.C]	NESHAP Requirements: In addition to the specific conditions listed above, the emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart BB – National Emissions Standards for Hazardous Air Pollutants from Phosphate Fertilizer Production Plants. The NESHAP common conditions are placed in Subsections MACT A and MACT BB. [40 CFR 63.620(b)(1), Rules 62-204.800 and 62-214.440, F.A.C]	Add NESHAP reference
Н.5	None – Insert new section and re-number following sections.	Excess Emissions Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision. H.5 Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [rule 62-210.700(4), F.A.C.; construction Permit 105059-061-AC) H.5.1 Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [rule 62-210.700(1), F.A.C. H.5.2 Excess Emissions Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department. [Rule 62-210.700(6), F.A.C.	Add here or in FW.6 and renumber subsequent sections
l.1.a	The process/operation rate shall not exceed 120 tons per hour of animal feed ingredients.	The process/operation rate shall not exceed 120 tons per hour as a daily average of animal feed ingredients.	Clarify averaging period.
1.1.b	The maximum fuel heat input rate for the dryer is 135 MMBtu/hr.	The maximum fuel heat input rate for the dryer is 135 MMBtu/hr as a daily average.	Clarify averaging period.
1.2	None. Add language and renumber	1.2 Emissions Unit Operating Rate Limitation After Testing. See the related	Clarify

	subsequent sections	testing provisions in Appendix TR, Facility-wide Testing Requirements.	operating limits after stack testing.
<u>7.</u>	None – Insert new section and re-number following sections.	Excess Emissions Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision. 1.5 Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. 1.5.1 Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. 1.5.2 Excess Emissions Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-210.700(1), F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department. [Rule 62-210.700(6), F.A.C.	Add here or in FW.6 and renumber subsequent sections
F1	None — Insert new section and re-number following sections.	Excess Emissions Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision. J.3 Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [rule 62-210.700(4), F.A.C.; construction Permit 105059-061-AC) J.3.1 Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [rule 62-210.700(1), F.A.C. J.3.2 Excess Emissions Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance	Add here or in FW.6 and renumber subsequent sections

		with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department. [Rule 62-210.700(6), F.A.C	
ਨ ਨ	None – Insert new section and re-number fallowing sections.	Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision. K.5 Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [rule 62-210.700(4), F.A.C.; construction Permit 105059-061-AC) K.5.1 Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [rule 62-210.700(1), F.A.C. K.5.2 Excess Emissions Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department. [Rule 62-210.700(6), F.A.C.	Add here or in FW.6 and renumber subsequent sections
Σ. Σ.	Allowable Fuel: The permittee is authorized to burn only the following fuels in the dryer: (a) Fuel heat input 30.0 MMBtu/hr Natural Gas (b) Fuel heat input 30.0 MMBtu/hr New No. 6 fuel oil or better grade with a fuel oil sulfur content of up to 2.50% S, by weight (see CC.5 for the definition of a better grade fuel oil).	Allowable Fuel: The permittee is authorized to burn only the following fuels in the dryer: (a) Fuel heat input 30.0 MMBtu/hr Natural Gas as a daily average (b) Fuel heat input 30.0 MMBtu/hr New No. 6 fuel oil or better grade with a fuel oil sulfur content of up to 2.50% S, by weight as a daily average (see CC.5 for the definition of a better grade fuel oil).	Clarify averaging time
MACT AA.1(2)	Allowable ranges may be based upon baseline average values recorded during previous performance tests using the test methods required in 63.626(c)(4) or (d)(4).	Allowable ranges may be based upon baseline average values recorded during previous performance tests using the test methods required in 63. 606 (c)(4) or (d)(4).	Incorrect citation (citation for subpart BB instead of AA)
Table 2	Min. Compliance Test Duration column says "1 hour" for all tests except some VE	Should be "3 runs of >=1 hour" instead of "1 hour"	Clarify

	measurements		
CC or FW	None – Insert new section and re-number	Excess Emissions	Add here or in
	following sections.	Rule 62-210.700 (Excess Emissions), F.A.C cannot vary any requirement of an	each permit
		NSPS, NESHAP or Acid Rain program provision.	section
		CC.x or FW.x Excess Emissions Prohibited: Excess emissions caused entirely or in	(preferred,
		part by poor maintenance, poor operation, or any other equipment or process	specified
		failure that may reasonably be prevented during startup, shutdown or	above) and
		malfunction shall be prohibited.	renumber
		[rule 62-210.700(4), F.A.C.; construction Permit 105059-061-AC)	subsequent
		CC.x.1 or FW.x.1 Excess Emissions Allowed: Excess emissions resulting from	sections.
		startup, shutdown or malfunction of any emissions unit shall be permitted	Note that the
		providing (1) best operational practices to minimize emissions are adhered to and	current TV
		(2) the duration of excess emissions shall be minimized but in no case exceed two	permit only
		hours in any 24 hour period unless specifically authorized by the Department for	has this
		longer duration.	language in
		[rule 62-210.700(1), F.A.C.	the sulfuric
		CC.x.2 or FW.x.2 Excess Emissions Notification: In case of excess emissions	acid plant
		resulting from malfunctions, the permittee shall notify the Compliance Authority	section.
,		in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions	
		shall be submitted in a quarterly report, if requested by the department.	
		[Rule 62-210.700(6), F.A.C	
=	Modify the list of RICE engines in EU-087 and		
	EU-088 as specified in Tables 1a and 1b below.		

Table 1a. EU-087 Emergency Stationary CI RICE<500 HP:

Manufacturer & Model Number	HP Rating	Date of Manuf./Const.	Emergency Engine Location/Purpose
Cummins, Model NTA855P450	425	Prior to June 12, 2006	No. 2 Deepwell
Cummins, Model NTA855F2 NTC-350	350	Prior to June 12, 2006	C1 Diesel Fire Pump
Ford, Model 4500EM //T-4668	105	Prior to June 12, 2006	DAP#2 East, Acid Booster
Cummins, Model IND355BC (NOT IN USE)	335	Prior to June 12, 2006	Decant Pump
Detroit, Model 12V71 (NOT IN USE)	350	Prior to June 12, 2006	C1 #5 Generator

Table 1b. EU-088 Existing Non-Emergency CI RICE 100<=HP<=500 HP

Manufacturer & Model Number	HP Rating	Date of Manuf./Const.	Engine Location/Purpose
Cummins, Model No. 6BT	140 204	Prior to June 12, 2006	C-1 Liqua Water Blaster
John Deere 4054 TF1501	66	1/1/2003	Booster Pump
Cummins, Water Blaster	204		Water Blaster
Onan 125 DYD (NOT IN USE)			
Caterpillar, Model No. 3408 (NOT IN USE)	325	Prior to June 12, 2006	S/S Compressor
Detroit, Model No. 453 (NOT IN USE)	110	Prior to June 12, 2006	Booster Pump

The engines marked "Not in Use" are out of service and would require significant work to bring them back to serviceable condition; please remove them from the permit listing.

Table XXX. Annual actual emissions reporting per condition FW10:

EU	Years	Pollutant	Projected Emissions for comparison,	Basis (Permit #)
			tpy	
004 (SAP 3)	2011-2015	S02	1597	1050059-063-AC
	2011-2015	SAM	22.0	1050059-063-AC
	2011-2015	NOx	27.2	1050059-063-AC
026 (AFI Si Bin)	2016	PM/PM10	1.2	1050059-072-AC
	2012 - 2016 VE		%0	1050059-072-AC

Table 2. Completed construction activities for revision to 10500059-075-AV

BART Permit Work Activities (1050059-061-AC)

Status of BART permit work activities

EU	Work Activities	Status (Completion Date)
-002	Meet SAM limit of 7.1 lb/hr; 0.05 lb/ton 100%	Complete. Include this limit in Title V
(SAP 1)	H ₂ SO ₄	permit.
	Increase the catalyst loading ratio from	Completed January 2012
	approximately 147 liters per ton H2SO4 per	
	day (L/TPD) at 3400 TPD production rate to	
	approximately 190 L/TPD at 3200 TPD	
	production rate {increases the current	
	catalyst loading from approximately 498,400	
	liters to 610,000 liters}	
	Install a heat recovery system (HRS) to	Canceled. HRS installed in SAP 2 and SAP 4
	replace the interpass absorption (IPA) tower	instead.
	(if necessary, install/replace)	
	Install Brownian diffusion type candles in the	Completed January 2012. Also replaced top
	final absorption tower for SAM control	portion of the final absorption tower to
		accommodate the larger demisters.
	Misc	Replaced Waste Heat Boiler #2, Economizer
		3B, Superheater 0A
-003	Meet SAM limit of 7.1 lb/hr; 0.05 lb/ton 100%	Complete. Include this limit in Title V
(SAP 2)	H ₂ SO ₄	permit.
	Increase the catalyst loading ratio from	Completed June 2011
	approximately 147 liters per ton H2SO4 per	
	day (L/TPD) at 3400 TPD production rate to	
	approximately 190 L/TPD at 3200 TPD	
	production rate {increases the current	
	catalyst loading from approximately 498,400	
	liters to 610,000 liters}	Cohodulad for ton 2014 Annual cond. A
	Install a heat recovery system (HRS) to	Scheduled for Jan 2014 turnaround. A
	replace the interpass absorption (IPA) tower	separate permit application has been
	(if necessary, install/replace)	submitted. Scheduled for Jan 2014 turnaround. A
	Replace the sulfur furnace (if necessary, install/replace)	
	instan/replace)	separate permit application has been submitted.
_	Replace the drying tower (if necessary,	Scheduled for Jan 2014 turnaround. A
	install/replace)	separate permit application has been
	instan, replace,	submitted.
		Submitted.
		The doghouse portion of the tower will be
		replaced to accommodate the candle design.
		Not required to meet BART limits.
_	Install Brownian diffusion type candles in the	Completed June 2011
	final absorption tower for SAM control	
	The state of the s	<u> </u>

	Misc Replaced Economizer 3B, Superheater	Completed June 2011	
	OA, silencer		
-004	Meet SAM limit of 7.1 lb/hr; 0.05 lb/ton 100%	Complete. Limit already incorporated in	
(SAP 3)	H ₂ SO ₄	Title V permit.	
	Increase the catalyst loading ratio from	Completed January 2010	
	approximately 157 liters per ton H2SO4 per		
	day (L/TPD) at 3400 TPD production rate to		
	approximately 190 L/TPD at 3200 TPD		
	production rate {increases the current		
	catalyst loading from approximately 535,200		
	liters to 610,000 liters}		
	Install a heat recovery system (HRS) to	Completed January 2010	
	replace the interpass absorption (IPA) tower		
	(if necessary, install/replace)		
	Replace the sulfur furnace (if necessary,	Completed January 2010	
	install/replace)		
	Replace the drying tower (if necessary,	Postponed. A new permit application will be	
	install/replace)	submitted prior to construction.	
	Install Brownian diffusion type candles in the	Completed January 2010	
	final absorption tower for SAM control		
	Misc – Replaced #1 & #2 Waste Heat Boilers,	Completed August 2012	
	#3B economizer and #0A superheater, stack		
	repairs		
-036	Install caustic scrubber for each of the	Canceled. Multifos A and B kilns shut down	
	Multifos A and B kilns	9/21/2011.	

No. 1 SAP June 2011 Turnaround – 1050059-070-AC and May 20, 2011 letter

-003	Install candle mist eliminators, economizer,	Completed June 2011
(SAP 2)	superheater	
-002	Install candle mist eliminators, economizer,	Completed January 2012
(SAP 1)	superheater	
-044	HRS tower replacement, internal distribution	Canceled. SAP 4 will be converted to HRS in
(SAP 5)	header, external piping, economizer,	June 2013 (permits 067-AC, 079-AC, 080-AC)
	superheater, acid diluter vessel	instead of SAP 5 because of the timing of
		capital availability and scheduled
		turnarounds.

AFI Silica Storage and Unloading - 1050059-072-AC expires 12/31/2013

-026 (Si	Replace the filter/receiver for the AFI Silica	Completed March 2012
storage)	Storage Bin	

Applicable Requirements

Applicable requirements are as indicated in permit 1050059-075-AV with the following exceptions:

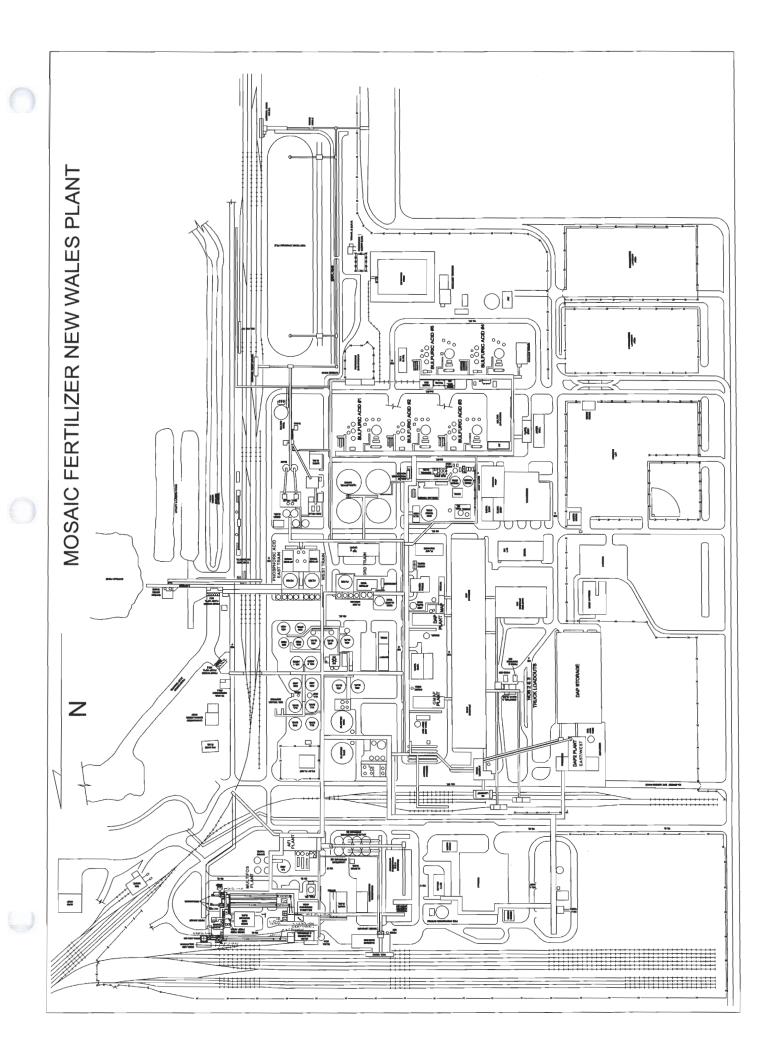
- a) New limit of 0.05 lb SAM/ton 100% H2SO4 produced for Sulfuric Acid Plants 1 and 2 (EU-002 and EU-003) to meet BART exemption requirements
- b) Clarification of citations as listed in Table 1
- c) List of RICE as corrected in Tables 1a and 1b

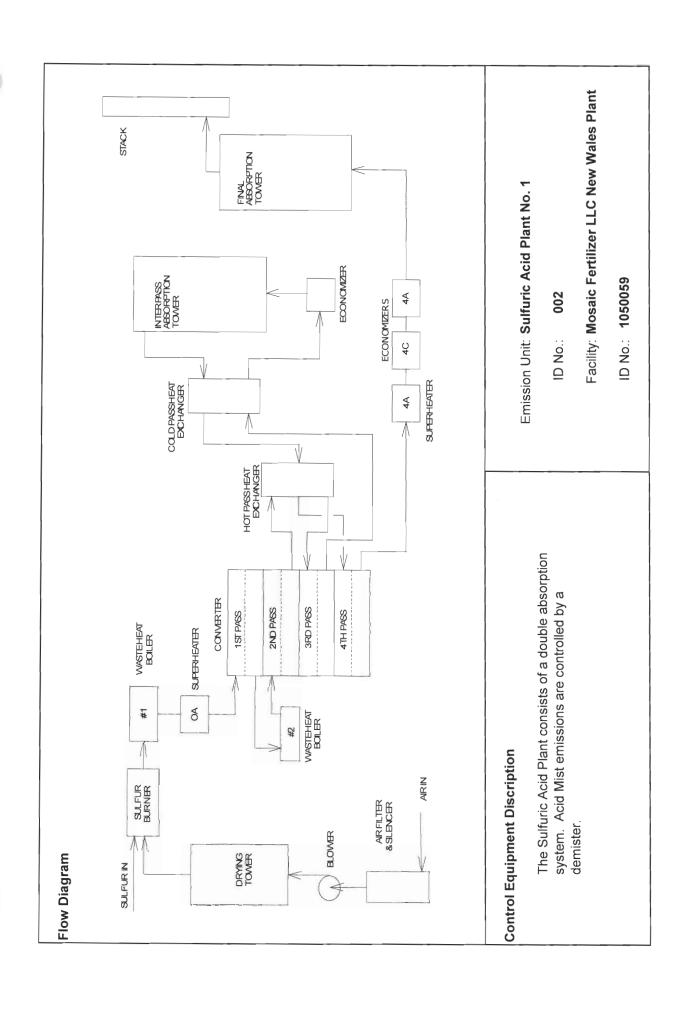
Attachment 2

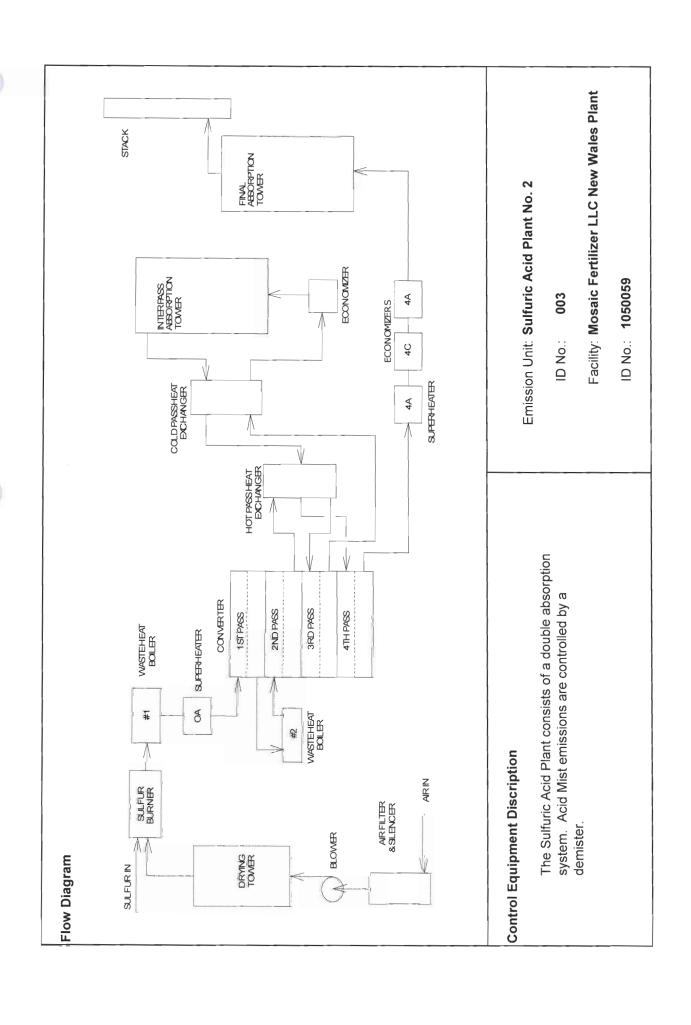
Facility Plot Plan

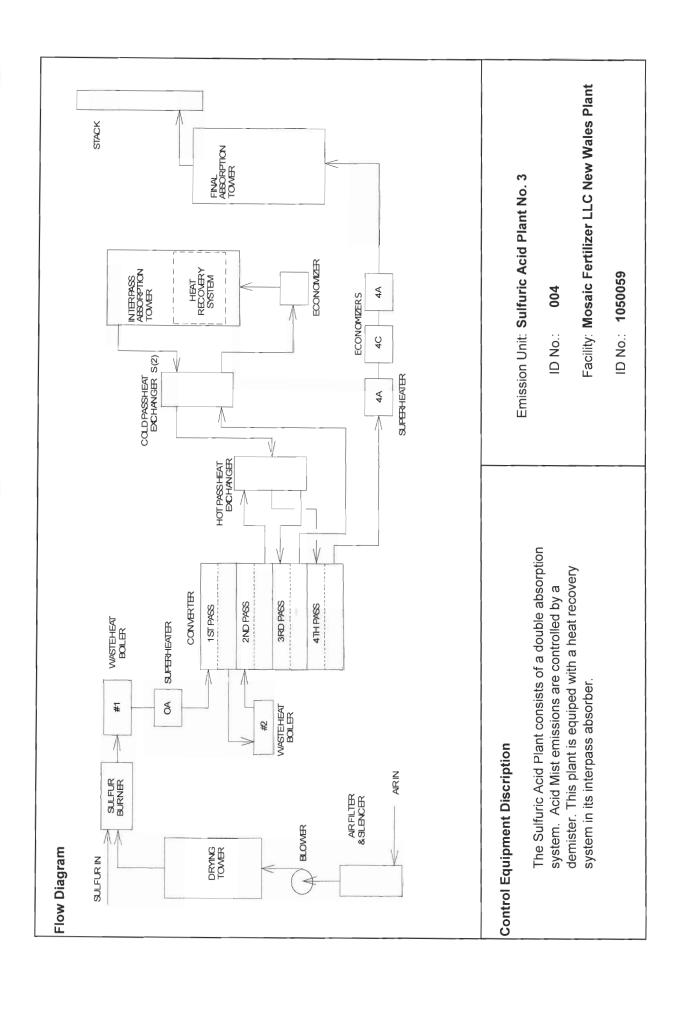
Process Flow Diagrams

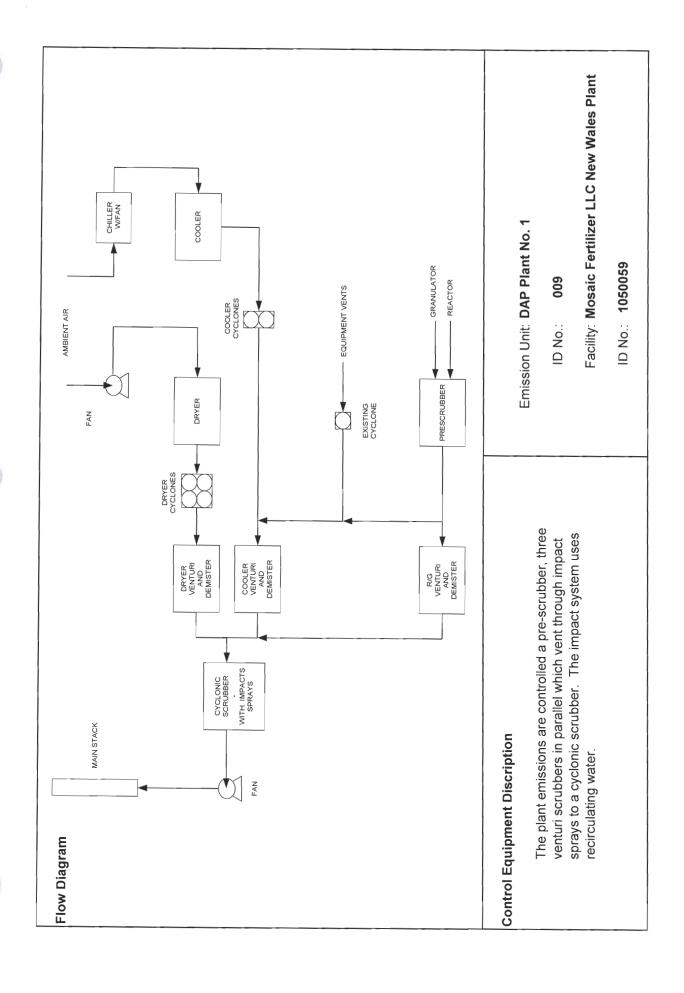
Precautions to Prevent Emissions of Unconfined Particulate Matter

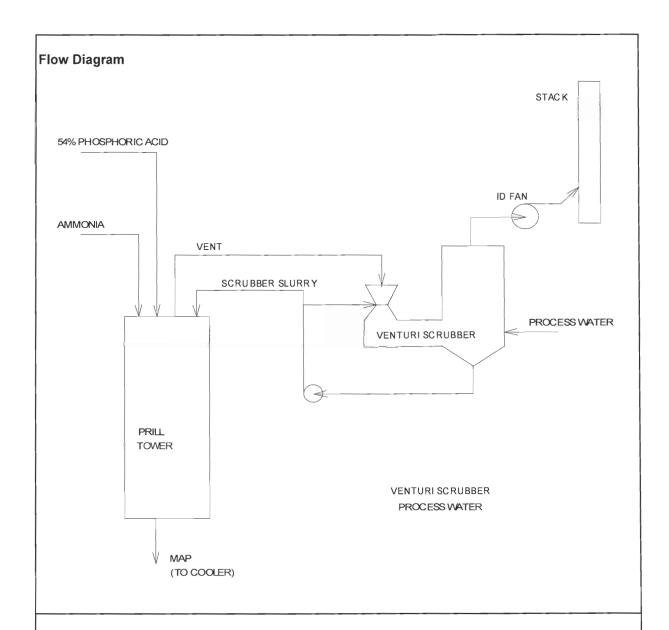










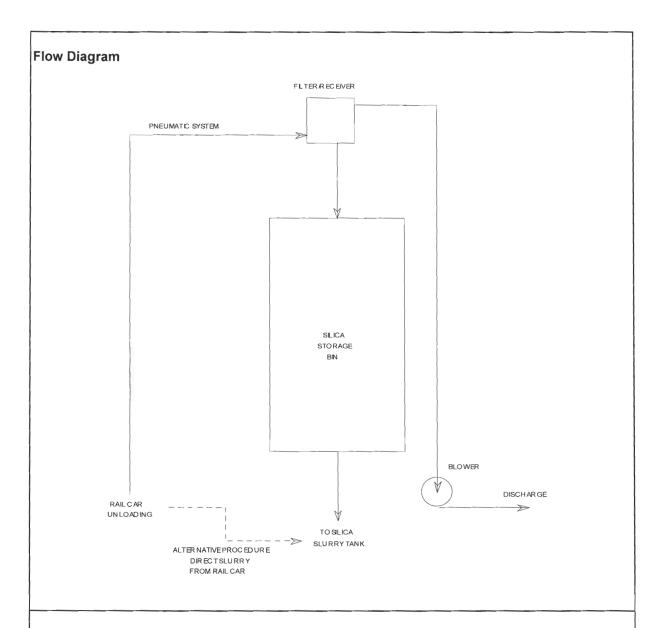


Control Equipment Discription

The emissions are controlled by a venturi scrubber with a recirculating water system. It is vented by a fan located upsteam from the cyclonic demister. The fan discharges to a stack.

Emission Unit: MAP Plant ID No.: 011

Facility: Mosaic Fertilizer LLC New Wales Plant ID No.: 1050059

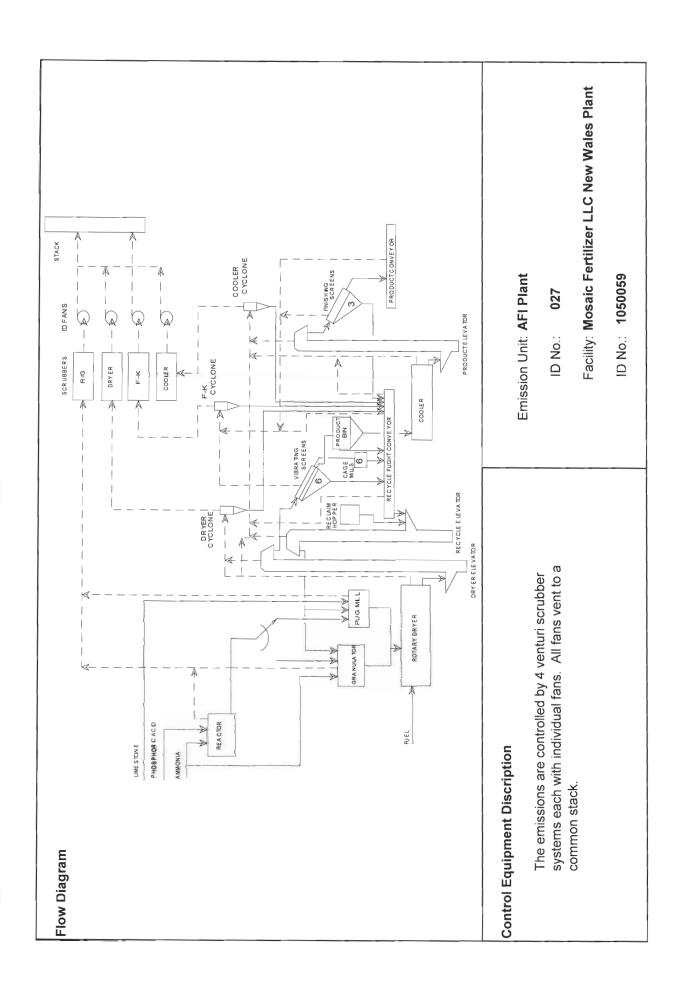


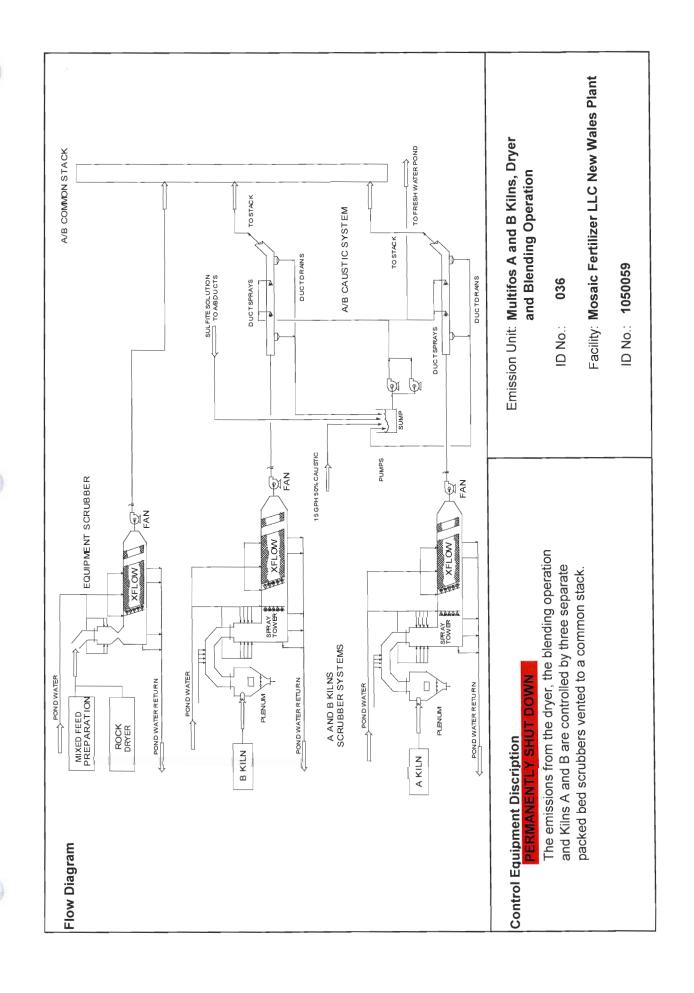
Control Equipment Discription

The emissions are controlled by the use of a vacuum type pnematic system to remove the material from the rail car to the storage bin. A bag type collector/receiver is used at the top of the storage bin. The pnematic blower is located at ground level.

Emission Unit: AFI Silica Unloading and Storage ID No.: 026

Facility: Mosaic Fertilizer LLC New Wales Plant ID No.: 1050059





PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Reasonable precautions to minimize emissions of unconfined particulate matter may include, as necessary:

- Sweeping; when necessary and where practical.
- Landscaping or planting of vegetation.
- Use of enclosures and windbreaks, where practical.
- Oiling of fertilizer products to reduce dust generation.

Mosaic Fertilizer, LLC New Wales Facility Permit No.: 1050059-069-AV

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, or that meet the criteria specified in Rule 62-210.300(3)(b)1., F.A.C., Generic Emissions Unit Exemption, are exempt from the permitting requirements of Chapters 62-210, 62-212 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 Rules 62-210.300(3)(a) and (b)1., 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 Rules 62-210.300(3)(a) and (b)1., 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:

GENERAL FACILITY-WIDE

abrasive cleaning - indoors agricultural related activities

air compressors

air conditioners

air vents in compressed air systems

ammonia bullets, pipeline, pop off valves, flanges, truck/rail unloading, flares and chillers

asbestos, waste and haz-waste removal

automatic oil/lube systems for mechanical equipment and fueling operations

automotive, tractor, locomotives and their repair shops

blueprint copiers

building ventilation systems

caustic tanks/vents

closed containers of maintenance chemicals

cold cleaning degreasers (containing heavier than air solvents)

construction/repair of office, storage and residential units

containers, reservoirs, wax and grease

containers and tanks for oils

cooling towers (no heavy metals used as antiscalants or algaecides)

degassifiers/dearators

diesel pump motors

drain vents

drinking water treatment area and wastewater treatment plant

ducts, chutes, equipment maintenance

dumpsters, other miscellaneous waste collection and handling

electric substation/electric yard

electric-powered vehicles

electrical charging systems

electrically heated equipment for heat treating, drying, annealing, etc.

equipment cleaning, including steam cleaning

Permit No.: 1050059-069-AV

Mosaic Fertilizer, LLC New Wales Facility

equipment for bonding brake shoes

equipment of hydraulic or hydrostatic testing

fire training exercises

food preparation, handling, consumption

fresh water tanks/vents

fuel tanks and dispensors

hand held equipment

handling of baghouse materials

hydroblasting

instrument air systems/vents

laboratories (quality control, analytical, metallurgical)

landscaping and farm equipment

lime silo with baghouse

lime tanks/vents

liming station

liquid sampling systems

maintenance of facilities

maintenance of grounds

maintenance shops

mechanical drives/gearboxes

metal shops

minor fugitive leaks from process equipment

mobile equipment fueling operations (diesel/gasoline)

mobile sources, including internal combustion engines, pumps, compressors, generators, welding, etc.

neutralization tanks/vents

non process mineral spirits use

open containers in use

painting /coating of equipment, tanks and structures (less than 6 gallons per day)

portable kerosene space heaters

pressure/steam relief valves

process water treatment and management systems

pump seals

purchased non-listed chemical tanks/vents (no HAP or VOC content)

railroad flares

railcar/truck/tanker unloading

raw material, reclaim/recycle material and product transfer and storage tanks

reclaimed mined areas

reclaimed water tank vents

refrigeration systems

safety devices

safety kleen solvent cleaners

sandblasters, welding equipment, compressors, wood shop, metal shop

service of air pollution control devices

space heaters

steam vents/leaks

storage facilities for packaged materials

storage tanks and dispensers

sulfuric acid tanks/vents

Permit No.: 1050059-069-AV

Mosaic Fertilizer, LLC New Wales Facility

sweeping and general cleanup
temporary use of compressors, generators, water pumps with internal combustion engines
transfer of materials on covered belt systems
transformer vault/building
vacuum cleaning systems
valves and flanges (no HAP or VOC content)
washing and cleaning equipment
waste preparation for disposal (in closed drums or other containers, spill cleanup)
wastewater plants, water treatment area
water pumps
water treatment aeration
water treatment chemical tanks/totes/drums
wet limestone transfer, handling, storage
woodworking shops

GRANULATION

choke feeder, covered conveyors, screening tower
chutes, conveyor and hopper
coating oil tanks
cooling tower, slurry pump, scrubber sump
covered conveyor, surge bin, product screens, chute to truck/railcar
material conveyors, elevators and screens
oil coating application systems
pond water sumps
product recovery units
raw material, reclaim material and product storage tanks, bins and buildings
scrubber seal tanks
seal oil tanks

MOLTEN SULFUR HANDLING

molten sulfur storage tank fires sulfur spill cleanup

PHOSPHATE ROCK HANDLING

railcar unloading and unloading pit rock and feed hoppers, conveyors train/truck unloading, hoppers, conveyors, wet rock stacking on pile wet rock grinding wet rock pile, stacking and transfer

SULFURIC ACID PRODUCTION

auxiliary power diesel generators
auxiliary power generator diesel tank
cooling towers
economizers
hot water reuse tank
process and product storage tanks
sulfuric acid tanker truck/rail loading/unloading
water reuse, uncontaminated water storage, condensate tanks for evaporators

Permit No.: 1050059-069-AV

Mosaic Fertilizer, LLC New Wales Facility

SHIPPING UNITS

#1 Fertilizer Rail/Truck Shipping with the application of a dust suppressant at all times. Fertilizer Truck Loadout No. 2 with the application of a dust suppressant at all times. Fertilizer Truck Loadout No. 3 with the application of a dust suppressant at all times. Fertilizer Rail Loadout No. 2 with the application of a dust suppressant at all times. Fertilizer Rail Loadout No. 3 with the application of a dust suppressant at all times.

Attachment 3 Compliance Demonstration

2012 Statement of Compliance





Certified Mail 7003 1010 0004 7145 9918 Return Receipt Requested

February 26, 2013

Florida Department of Environmental Protection Division of Air Resources Management Twin Towers Office Building 2600 Blair Stone Road – MS5500 Tallahassee, Florida 32399-2400

RE: Statement of Compliance for 2012

Dear Sir:

Copies-of-the enclosed-Statements-of Compliance are being submitted to the FDEP Southwest District and EPA Region IV for the following facilities:

- Mosaic New Wales Plant, 1050059
- Mosaic South Pierce Plant, 1050055

If you have any questions, please contact me at 863-844-5021.

Sincerely,

Ghani Baig

Environmental Manager

CDT:jp enc.

C: FDEP- Southwest District – Tampa – 7003 1010 0004 7145 9925 EPA Region IV – 7003 1010 0004 7145 9932



Department of Environmental Protection

Division of Air Resource Management

STATEMENT OF COMPLIANCE - TITLE V SOURCE

		al Requirement		ansfer of Pe		Permanent Facility Shutdown
		REP	ORTING PE	RIOD*		REPORT DEADLINE**
	Janu	ary 1 through	December	of 2012	(year)	N/A
pe	riod, inc		ns that were a			ffect during the indicated reporting ugh permit revision.
Facil	ity Owr	er/Company Name	: Mosaic Ferti	lizer, LLC		
Site	Name:	South Pierce Pla	int	Facility II	No. <u>1050055</u>	County: Polk
COM	PLIAN	CE STATEMENT	(Check only	one of the fo	llowing three op	tions)
<u>X</u>		applicable, the Acid	l Rain Part, an ed with any ma	d there were a alfunction or l	no reportable inci oreakdown of pro	the Title V Air Operation Permit and, if dents of deviations from applicable ocess, fuel burning or emission control g period identified above.
	appli appli conti	cable, the Acid Ra cable requirements ol equipment, or m	in Part; howe associated w onitoring syst	ver, there we ith malfunction ems during th	one or more ons or breakdow e reporting perio	the Title V Air Operation Permit and, i reportable incidents of deviations from as of process, fuel burning or emission didentified above, which were reported formation is included:
	1. 2.	Date of report prev Description of the		ted identifyin	g the incident of	deviation.
	appli report of pri ident	cable, the Acid R rtable incidents of cocess, fuel burning	ain Part, EXC leviations from or emission of were reported	CEPT those in applicable recontrol equip	dentified in the equirements assoment, or monitor	the Title V Air Operation Permit and, it pages attached to this report and an iciated with malfunctions or breakdown ing systems during the reporting perion in the title of noncompliance, the following
	1. 2.	Emissions unit ide Specific permit co changed during ce	ndition numbe	er (note wheth	er the permit con	dition has been added, deleted, or
	3.	Description of the	requirement o	of the permit c		
	4.	Basis for the deter was continuous, i.e				arameters, indicate whether monitoring ermittent).
	5. 6.	Beginning and end Identification of the preventative meas	e probable ca	use of noncor		cription of corrective action or
	7.	•	•		ntifying this inci	dent of noncompliance.
	For e	each incident of dev	viation, as desc	cribed in para	graph B. above, t	he following information is included:

1. Date of report previously submitted identifying the incident of deviation.

DEP Form No. 62-213.900(7)

Effective: 6-02-02

2. Description of the incident.

STATEMENT OF COMPLIANCE - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete. February 25, 2013 (Signature of Title V Source Responsible Official) (Date)

DESIGNATED REPRESENTATIVE CERTIFICATION (only applicable to Acid Rain source)

Title:

Plant Manager, New Wales

I, the undersigned, am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

(Signature of Acid Rain Source Designated Representative)		(Date)
Name:	Title:	

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency(EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

DEP Form No. 62-213.900(7)

Effective: 6-02-02

Name: Ronald L. Yasurek



Department of Environmental Protection

Division of Air Resource Management

STATEMENT OF COMPLIANCE - TITLE V SOURCE

- 1		l Requirement		nsfer of Permit		Permanent Facility Shutdown
		REP(ORTING PERI	OD*		REPORT DEADLINE**
	<u>Januar</u>	ry 1 through	December 31	of 2012 (ye	ear)	<u>N/A</u>
p	eriod, inclu	ent of compliance ading any condition 2-213.440(3)(a)2., F	ns that were add			ect during the indicated reporting gh permit revision.
Fac	ility Owne	r/Company Name:	Mosaic Fertiliz	er, LLC		
Site	Name:	New Wales Plant	t	Facility ID No.	1050059	County: Polk
COI	MPLIANC	CE STATEMENT	(Check only or	ne of the followi	ng three opt	ions)
	applica require	able, the Acid Ra	in Part, and t with any malfu	here were no re inction or breake	eportable inc	ne Title V Air Operation Permit and, in eidents of deviations from applicable cess, fuel burning or emission controlled above.
	applica applica contro	able, the Acid Rai able requirements I equipment, or mo	n Part; howeve associated with onitoring system	er, there were on malfunctions on as during the rep	ne or more re r breakdowns orting period	ne Title V Air Operation Permit and, is eportable incidents of deviations from s of process, fuel burning or emission identified above, which were reported mation is included:
		Date of report previ Description of the in		d identifying the	incident of de	eviation.
X	applica reporta of pro- identif	able, the Acid Ra able incidents of de cess, fuel burning	in Part, EXCE eviations from a or emission co	PT those identiantly applicable requirent, not only the property of the proper	fied in the p ements assoc or monitorir	the Title V Air Operation Permit and, it begges attached to this report and any inted with malfunctions or breakdowning systems during the reporting perioditem of noncompliance, the following
	2. S	Emissions unit iden Specific permit con changed during cert	dition number (note whether the	e permit cond	lition has been added, deleted, or
		Description of the r				
		Basis for the detern was continuous, i.e.				rameters, indicate whether monitoring mittent).
	5. E 6. I	Beginning and endi	ng dates of per probable cause	iods of noncomp e of noncompliar	liance.	iption of corrective action or
	-		•		ng this incide	ent of noncompliance.
	For ea	ch incident of devi	ation, as descri	bed in paragraph	B. above, the	e following information is included:
		ate of report previous escription of the in		identifying the i	ncident of de	viation.

DEP Form No. 62-213.900(7)

Effective: 6-02-02

STATEMENT OF COMPLIANCE - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete. February 25, 2013 (Signature of Title V Source Responsible Official) (Date) Name: Ronald L. Yasurek Title: Plant Manager, New Wales **DESIGNATED REPRESENTATIVE CERTIFICATION** (only applicable to Acid Rain source) I, the undersigned, am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment. (Signature of Acid Rain Source Designated Representative) (Date)

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency(EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

Title:

DEP Form No. 62-213.900(7)

Effective: 6-02-02

	002 Sulfuric Acid Plant No. 1
2.	Specific Permit Condition: III.A.6.1 (Att. A, MOU 3) (1050059-069-AV)
3.	Description of the requirement in the specific condition:
	MOU establishes minimum temperatures for catalyst masses for startups
4.	Basis for determination of noncompliance:
	Catalyst masses temperatures < MOU minimum
5.	Beginning and ending dates of periods of noncompliance:
	Period: 9/2
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	The temperature of the catayst masses did not achieve the minimum requirements by 22 degrees. Additional care taken to follow MOU requirements.
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

	030 Soda Ash Unloading System
2.	Specific Permit Condition: III.J.22 (1050059-069-AV), III.H.5 (1050059-075-AV)
3.	Description of the requirement in the specific condition:
	Record pressure drop across the baghouse daily
4.	Basis for determination of noncompliance:
	Pressure drop not recorded daily
5.	Beginning and ending dates of periods of noncompliance:
	Period: 4/12 to 12/31 (34 days)
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	Soda ash system was associated with Multifos production. Multifos ceased operation on 1/31/12. During the demolition of Multifos the instrumentation utilized to record the soda ash pressure drop was retained and later connected to current system for AFI which was not properly connected to the archive.
7،	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

4	Emissions	A famile	Identification	Al. conformer
١.	Emissions	URIT	TOPOTITICATION	Number:

٠.	Emissions one teartheation rumber.
	039 Phosphoric Acid Plant No. 3
2.	Specific Permit Condition: III.MACT.AA.1 (1050059-075-AV)
3.	Description of the requirement in the specific condition:
	Scrubber operating ranges established pursuant to Alternative Monitoring Plan
1.	Basis for determination of noncompliance:
	Fan Amps > Max allowed
ō.	Beginning and ending dates of periods of noncompliance:
	Period: 12/12
ö.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	The maximum was exceeded by 2 amps after startup making the daily average high. Startup of the plant followed a scheduled maintenance which included cleaning of the scrubber packing which resulted in low pressure drop and high volumetric flow (fan amps) through the scrubber.
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

	042 Sulfuric Acid Plant No. 4
2.	Specific Permit Condition: III.A.7.1 (1050059-075-AV)
3.	Description of the requirement in the specific condition:
	< 4 lb/ton 3 hr avg excess emission within 2 hrs of startup
4.	Basis for determination of noncompliance:
	> 4 lb/ton SO2 3 hr avg for > 2 hours during startup
5.	Beginning and ending dates of periods of noncompliance:
	Period: 11/19 (0.25 hr)
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	SO2 lb/ton 3 hour avg exceeded 4 lb/ton 2 hr allowed excess emissions for 0.25 hrs. Actions were taken to minimize these emissions. Subsequently the plant was shutdown when the excess emissions did not reduce
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

	042 Sulfuric Acid Plant No. 4
2.	Specific Permit Condition: III.A.6.1 (Att. A, MOU 3) (1050059-069-AV)
3.	Description of the requirement in the specific condition:
	MOU requires < 4 lb/ton within 3 hours after startup.
4.	Basis for determination of noncompliance:
	Instantaneous Lb/ton > 4 for 3.5 hours.
5.	Beginning and ending dates of periods of noncompliance:
	Period: 10/27
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	Startup emissions reached intantenous compliance at the MOU 3 hour period end but then subsequently increased for 0.5 hours. Actions were taken to minimize these emissions according to the MOU.
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

	042 Sulfuric Acid Plant No. 4
2.	Specific Permit Condition: III.A.6.1 (Att. A, MOU 3) (1050059-069-AV), III.A.7.1 (Appendix MOU)
3.	Description of the requirement in the specific condition:
	MOU establishes minimum temperatures for catalyst masses for startups
4.	Basis for determination of noncompliance:
	Catalyst masses temperatures < MOU minimum
5.	Beginning and ending dates of periods of noncompliance:
	Period: 10/12, 10/29, 11/9
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	The temperature of the catayst masses did not achieve the minimum requirements by 6 to 25 degrees. Additional care taken to follow MOU requirements.
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

	044 Sulfuric Acid Plant No. 5
2.	Specific Permit Condition: III.A.7.1 (Appendix MOU) (1050059-075-AV)
3.	Description of the requirement in the specific condition:
	MOU establishes minimum temperatures for catalyst masses for startups
4.	Basis for determination of noncompliance:
	Catalyst masses temperatures < MOU minimum
5.	Beginning and ending dates of periods of noncompliance:
	Period: 11/10
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	The temperature of the catayst masses did not achieve the minimum requirements by 16 degrees. Additional care taken to follow MOU requirements.
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	None

	044 Sulfuric Acid Plant No. 5
2.	Specific Permit Condition: III.A.6.1 (Att. A, MOU 3) (1050059-069-AV)
3.	Description of the requirement in the specific condition:
	MOU requires < 4 lb/ton within 3 hours after startup.
4.	Basis for determination of noncompliance:
	Instantaneous Lb/ton > 4 for 5 hours.
5.	Beginning and ending dates of periods of noncompliance:
	Period: 6/26 (5 hours)
6.	Identification of the probable cause of noncompliance and description of corrective action or preventive measured implemented:
	Startup emissions reached intantenous compliance at the MOU 3 hour period end but then subsequently increased for 1.75 hours. Actions were taken to minimize these emissions according to the MOU. The plant was shutdown when the excess emissions did not reduce.
7.	Dates of any reports previously submitted identifying this incident of noncompliance:
	July 30, 2012 Quarterly Continuous Emission Monitor Report; July 30, 2012 Semiannual Report

Emissions Unit Identification Number:

002 Sulfuric Acid Plant No. 1

1. Description of incident of deviation.

> 4 lb/ton SO2 3 hr avg for < 2 hours during startup

2. Dates of any reports previously submitted identifying this incident of deviation:

044	Sulfuric	Acid	Plant	No. 5

1.	Description of incident of deviation.
	> 4 lb/ton SO2 3 hr avg for < 2 hours due to a malfunction
2.	Dates of any reports previously submitted identifying this incident of deviation:
	None

	044 Sulfuric Acid Plant No. 5
1.	Description of incident of deviation.
	> 4 lb/ton SO2 3 hr avg for < 2 hours during startup
2.	Dates of any reports previously submitted identifying this incident of deviation:
	None

Emissions Unit Identification Number:

044 Sulfuric Acid Plant No. 5

1. Description of incident of deviation.

> 4 lb/ton SO2 3 hr avg for < 2 hours due to a malfunction

2. Dates of any reports previously submitted identifying this incident of deviation:

Emissions Unit Identification Number:

044 Sulfuric Acid Plant No. 5

1. Description of incident of deviation.

> 4 lb/ton SO2 3 hr avg for < 2 hours during startup

2. Dates of any reports previously submitted identifying this incident of deviation:

Emissions Unit Identification Number:

042	Sulfu	ıric	Acid	Plan	t No	4

1. D	escription	of	incident	of	deviation.	
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> 4 lb/ton SO2 3 hr avg for < 2 hours during startup

2. Dates of any reports previously submitted identifying this incident of deviation:

042	Sulfuric	Acid	Plant	No.	4
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1.	Description of incident of deviation.
	CEM malfunction.
2.	Dates of any reports previously submitted identifying this incident of deviation:
	April 27, 2012 Quarterly Continuous Emission Monitor Report.

042 Su	lfuric	Acid	l P	lant	No.	4
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1.	Description of incident of deviation.
1	> 4 lb/ton SO2 3 hr avg for < 2 hours during startup
2.	Dates of any reports previously submitted identifying this incident of deviation:
	None

Emissions Unit Identification Number:

004 Sulfuric Acid Plant No. 3

Description of incident of deviation.	
CEM malfunction.	

2. Dates of any reports previously submitted identifying this incident of deviation:

Emissions Unit Identification Number:

004 Sulfuric Acid Plant No. 3

1. Description of incident of deviation.

> 4 lb/ton SO2 3 hr avg for < 2 hours during startup

2. Dates of any reports previously submitted identifying this incident of deviation:

003	Sulfuria	Acid	Plant No.	2
uu.s	SUITURIC	ACID	PIANT NO.	

1.	Description of incident of deviation.
	> 4 lb/ton SO2 3 hr avg for < 2 hours during startup
2.	Dates of any reports previously submitted identifying this incident of deviation:
	None

Emissions Unit Identification Number:

003 Sulfuric Acid Plant No. 2

1. Description of incident of deviation.

> 4 lb/ton SO2 3 hr avg for < 2 hours during startup

2. Dates of any reports previously submitted identifying this incident of deviation:

002 Sulfuric Ac	id Plant No. 1
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1.	Description of incident of deviation.
	> 4 lb/ton SO2 3 hr avg for < 2 hours during startup
2.	Dates of any reports previously submitted identifying this incident of deviation:
	None